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FISCAL YEAR 1991 BUDGET ESTIMATES

Department of Defense - Budget Justification

JANUARY 1990

AD-A 220 060



CONTRACTED ADVISORY AND
ASSISTANCE SERVICES-CAAS

BUDGET EXHIBIT PB-27

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STATEMENT "A" per Martin Fritsch
Office of the Secretary of the Air Force
Pentagon/SAF/FMRMC
TELECON 4/3/90
VG

Summary

DEPARTMENT OF DEFENSE - FY 1991 PRESIDENT'S BUDGET
CONTRACTED ADVISORY AND ASSISTANCE SERVICES (CAAS)
BUDGET EXHIBIT PB-27

General Requirements: This set of estimates is generally referred to as the PB-27 budget exhibit (from its designation in the DOD Budget Guidance Manual). This exhibit and the accompanying narratives cover the budget estimates for which an annual budget report was required by Section 918 of the Conference Armed Services Committee Report in the FY 1986 budget. Section 918 requires that accounting procedures be established to provide for the identification and control of expenditures identified as Contracted Advisory and Assistance Services (CAAS). It also required that regulations be prescribed which describe what these services are and that the budget documents provided to the Congress in support of the President's Budget should identify estimates in conformance with the regulations which describe these services. Preparation and submission of this budget exhibit is in compliance with the last part of the requirements in Section 918.

Weapons Support and Generic Distinction: Section 918 also requires the separate identification of CAAS services "...carried out in direct support of a weapon system and (which) are essential to the development, production and maintenance of the system." To comply with this requirement, such CAAS costs are separately displayed in the Weapon Systems Services and Support Exhibit. All other CAAS costs are displayed in the Generic Exhibit.

CAAS Definitions: DOD Directive 4205.2 "Contracted Advisory and Assistance Services" provides the definitions for CAAS which were used in compiling the budget estimates covered by this exhibit. The overall magnitude of the estimates shown in the PB-27 exhibit are reflective of policies to rely to the maximum extent on the private sector resources of our economy. This is intended to secure services required by the Department of Defense by the most economical means while taking full advantage of the quality services available through competition.

CAAS Management: In order to improve management over consulting, and related services DOD Directive 4205.2 requires the establishment of senior level positions as Director of CAAS in the Office of the Secretary of Defense and in each of the three military Departments.

Recent Changes in PB-27: This year FY 89 obligations have been adjusted to reflect actual obligations. Previous years were estimated. Additionally, FY 90 projections fall within the Congressional limitation imposed by Public Law 105-101. Also, Federally Funded Research and Development Centers (FFRDCs) have been included as memo entries.

Coverage Limitations: It is emphasized that the PB-27 is not a consolidation of all Department of Defense contractual service estimates. The exhibit provides estimates and narrative explanations for professional type contract services only as defined as CAAS by DOD Directive 4205.2. The PB-27 exhibit does not include estimates for commercial industrial type services (OMB Circular A-76 activities) which are generally categorized as "blue collar" type services and contractual efforts such as the maintenance of equipment or facilities.

Special Analysis- Weapon Systems Generic Services And Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation: Consolidated, AF

Date 31 JAN 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (IEC)

| | | | |
|--|---------|---------|-------|
| 1. Personnel Appointments | \$ 0 | \$ 0 | \$ 0 |
| a. Experts | 8 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 1,675 | 1,065 | 287 |
| Total Section A | \$1,683 | \$1,065 | \$287 |

B. Studies, Analyses and Evaluation (SAE)

| | | | |
|--|---------|-------|--------|
| 1. Manpower and Personnel | \$2,740 | \$638 | \$483 |
| 2. Concepts and Plans | 11,852 | 8,888 | 10,439 |
| 3. Operations and Force Structure | 10,708 | 8,305 | 6,725 |
| 4. Installations and Logistics | 9,320 | 4,289 | 8,324 |
| 5. Science, Technology, System and Equipment | 11,431 | 7,749 | 8,622 |

| | FY 1989 | FY 1990 | FY 1991 |
|--------------------------------------|----------|----------|----------|
| 6. Management | 315 | 446 | 446 |
| 7. Intelligence | 298 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$46,664 | \$30,315 | \$35,039 |
| C. Management Support Services (MSS) | | | |
| 1. Program Management Support | \$29,447 | \$76,715 | \$71,029 |
| 2. Policy Review and Development | 1,610 | 5,300 | 4,913 |
| 3. Specification Development | 3,236 | 673 | 155 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 2,076 | 4,253 | 3,927 |
| 6. Technical Data Collection | 847 | 2,019 | 1,558 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 1,455 | 2,773 | 2,615 |
| Total Section C | \$38,671 | \$91,733 | \$84,197 |

D. Engineering and Technical Services (ETS)

| | FY 1989 | FY 1990 | FY 1991 |
|----------------------------------|-------------|-------------|-----------|
| 1. Contract Plant Services | \$10,334 | \$0 | \$0 |
| 2. Contract Field Services | 46,888 | 43,663 | 30,356 |
| 3. Field Service Representatives | 725 | 26,477 | 28,145 |
| Total Section D | \$57,947 | \$70,140 | \$58,501 |
| E. FFRDCs | (\$40,635) | \$42,800) | \$44,835 |
| Total Section E. | •(\$40,635) | •(\$42,800) | \$44,835 |
| Grand Total | \$144,965 | \$193,253 | \$222,859 |

•Total for FY89 and FY90 would have been \$185,600 and \$236,053 if FFRDCS were included.

Special Analysis- Weapon Systems Generic Services And Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation: 3010 (Aircraft Procurement)

Date: 31 Jan 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (IEC)

| | | | |
|--|-----|-----|-----|
| 1. Personnel Appointments | \$0 | \$0 | \$0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 0 | 0 | 0 |
| Total Section A | \$0 | \$0 | \$0 |

B. Studies, Analyses and Evaluation (SAE)

| | | | |
|-----------------------------------|-----|-----|-----|
| 1. Manpower and Personnel | \$0 | \$0 | \$0 |
| 2. Concepts and Plans | 0 | 0 | 0 |
| 3. Operations and Force Structure | 0 | 0 | 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$0 | \$0 |

C. Management Support Services (MSS)

| | | | |
|-----------------------------------|-------|---------|---------|
| 1. Program Management Support | \$0 | \$135 | \$135 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 227 | 2,625 | 2,645 |
| 6. Technical Data Collection | 0 | 276 | 286 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 0 | 0 |
| Total Section C | \$227 | \$3,036 | \$3,066 |

D Engineering and Technical Services (ETS)

1. Contract Plant Services

2. Contract Field Services

3. Field Service Representatives

Total Section D

E. FFRDCs

Total Section E

GRAND TOTAL

| | FY 1989 | FY 1990 | FY 1991 |
|----------------------------------|---------|---------|---------|
| 1. Contract Plant Services | \$ 0 | \$ 0 | \$ 0 |
| 2. Contract Field Services | 0 | 0 | 0 |
| 3. Field Service Representatives | 0 | 0 | 0 |
| Total Section D | 0 | 0 | 0 |
| E. FFRDCs | \$ 0 | \$ 0 | \$ 0 |
| Total Section E | \$ 0 | \$ 0 | \$ 0 |
| GRAND TOTAL | \$227 | \$3.036 | \$3.066 |

Special Analysis- Weapon Systems Generic Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

| Appropriation: 3020 (Missile Procurement) | Date: 31 Jan 1990 |
|---|-----------------------------------|
| | FY 1989 FY 1990 FY 1991 |
| A. Individual Experts and Consultants (IEC) | |
| 1. Personnel Appointments | \$0 \$0 \$0 |
| a. Experts | 0 0 0 |
| b. Consultants | 0 0 0 |
| (1) Federal Advisory Committee Members | 0 0 0 |
| (2) All other Appointed Consultants | 0 0 0 |
| 2. Contract Consultants | 0 0 0 |
| Total Section A | \$0 \$0 \$0 |
| B. Studies, Analyses and Evaluation (SAE) | |
| 1. Manpower and Personnel | \$0 \$0 \$0 |
| 2. Concepts and Plans | 0 0 0 |
| 3. Operations and Force Structure | 0 0 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$0 | \$0 |
| C. Management Support Services (MSS) | | | |
| 1. Program Management Support | \$0 | \$50 | \$0 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 0 | 215 | 0 |
| 6. Technical Data Collection | 0 | 0 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 0 | 0 |
| Total Section C | \$0 | \$265 | \$0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|-------------|-------------|----------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$0 | \$0 | \$0 |
| 2. Contract Field Services | 0 | 0 | 0 |
| 3. Field Services Representatives | 0 | 0 | 0 |
| Total Section D | \$0 | \$0 | \$0 |
| E. FFRDCs | | | |
| | (\$ 5,501) | (\$ 5,777) | \$ 6,485 |
| Total Section E | •(\$ 5,501) | •(\$ 5,777) | \$ 6,485 |
| Grand Total | \$0 | \$265 | \$ 6,485 |

•Total for FY89 and FY90 would have been \$5,501 and \$6,042 if FFRDCs were included.

Special Analysis- Weapon Systems Generic Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

| Appropriation: 3080 (Other Procurement) | Date: 31 Jan 1990 |
|--|-----------------------------------|
| | FY 1989 FY 1990 FY 1991 |
| A. Individual Experts and Consultants (IEC) | |
| 1. Personnel Appointments | \$0 \$0 \$0 |
| a. Experts | 0 0 0 |
| b. Consultants | 0 0 0 |
| (1) Federal Advisory Committee Members | 0 0 0 |
| (2) All other Appointed Consultants | 0 0 0 |
| 2. Contract Consultants | 0 0 0 |
| Total Section A | \$0 \$0 \$0 |
| B. Studies, Analyses and Evaluation (SAE) | |
| 1. Manpower and Personnel | \$0 \$0 \$0 |
| 2. Concepts and Plans | 0 0 0 |
| 3. Operations and Force Structure | 0 0 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$0 | \$0 |

C. Management Support Services (MSS)

| | | | |
|-----------------------------------|-----|----------|----------|
| 1. Program Management Support | \$0 | \$14,800 | \$10,537 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 0 | 1,213 | 1,282 |
| 6. Technical Data Collection | 0 | 1,733 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 1,292 | 1,237 |
| Total Section C | \$0 | \$19,038 | \$13,056 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|------------|-------------|----------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$0 | \$0 | \$0 |
| 2. Contract Field Services | 0 | 0 | 0 |
| 3. Field Services Representatives | 0 | 0 | 0 |
| Total Section D | \$0 | \$0 | \$0 |
| E. FFRDCs | | | |
| | (\$1,741) | (\$ 1,836) | \$1,937 |
| Total Section E | •(\$1,741) | •(\$ 1,836) | \$1,937 |
| Grand Total | \$0 | \$19,038 | \$14,993 |

•Total for FY89 and FY90 would have been \$1,741 and \$20,874 if FFRDCs were included.

Special Analysis- Weapon Systems Generic Services And Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

| Appropriation : 3400 (Operations & Maintenance Active) | | Date 31 JAN 1990 | | |
|--|--|------------------|---------|---------|
| | | FY 1989 | FY 1990 | FY 1991 |
| A. Individual Experts and Consultants (IEC) | | | | |
| 1. Personnel Appointments | | 0 | 0 | 0 |
| a. Experts | | 8 | 0 | 0 |
| b. Consultants | | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | | 0 | 0 | 0 |
| (2) All other Appointed Consultants | | 0 | 0 | 0 |
| 2. Contract Consultants | | 1,675 | 1,065 | 155 |
| Total Section A | | \$1,683 | \$1,065 | \$155 |
| B. Studies, Analyses and Evaluation (SAE) | | | | |
| 1. Manpower and Personnel | | \$2,740 | \$638 | \$483 |
| 2. Concepts and Plans | | 11,852 | 7,646 | 7,505 |
| 3. Operations and Force Structure | | 10,708 | 8,305 | 6,725 |
| 4. Installations and Logistics | | 9,320 | 4,289 | 8,324 |
| 5. Science, Technology, System and Equipment | | 11,431 | 7,749 | 6,636 |

| | FY 1989 | FY 1990 | FY 1991 |
|--------------------------------------|----------|----------|----------|
| 6. Management | 315 | 0 | 0 |
| 7. Intelligence | 298 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$46,664 | \$28,627 | \$29,673 |
| C. Management Support Services (MSS) | | | |
| 1. Program Management Support | \$10,030 | \$6,839 | \$1,234 |
| 2. Policy Review and Development | 1,610 | 5,300 | 4,913 |
| 3. Specification Development | 3,236 | 673 | 155 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 248 | 200 | 0 |
| 6. Technical Data Collection | 847 | 10 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 352 | 731 | 628 |
| Total Section C | \$16,823 | \$13,753 | \$6,930 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|-------------|-------------|----------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$10,334 | \$0 | \$0 |
| 2. Contract Field Services | 37,344 | 26,432 | 19,422 |
| 3. Field Service Representatives | 725 | 522 | 145 |
| Total Section D | \$48,403 | \$26,954 | \$19,567 |
| E. FFRDCS | | | |
| | (\$ 7,625) | (\$ 7,732) | \$ 7,822 |
| Total Section E | •(\$ 7,625) | •(\$ 7,732) | \$ 7,822 |
| Grand Total | \$113,573 | \$70,399 | \$64,147 |

•Total for FY89 and FY90 would have been \$121,198 and \$78,131 if FFRDCs were included.

Special Analysis- Weapon Systems/Generic Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation: 3600 (Research, Development, Test and Evaluation) Date: 31 Jan 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (IEC)

| | | | |
|--|-----|-----|-------|
| 1. Personnel Appointments | \$0 | \$0 | \$0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All Other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 0 | 0 | 132 |
| Total Section A | \$0 | \$0 | \$132 |

B. Studies, Analyses and Evaluation (SAE)

| | | | |
|-----------------------------------|-----|-------|-------|
| 1. Manpower and Personnel | \$0 | \$0 | \$0 |
| 2. Concepts and Plans | 0 | 1,242 | 2,934 |
| 3. Operations and Force Structure | 0 | 0 | 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|----------|----------|----------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 1,986 |
| 6. Management | 0 | 446 | 446 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$1,688 | \$5,366 |
| C. Management Support Services (MSS) | | | |
| 1. Program Management Support | \$19,417 | \$54,891 | \$59,123 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 1,601 | 0 | 0 |
| 6. Technical Data Collection | 0 | 0 | 1,272 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | \$ 603 | \$ 750 | \$ 750 |
| Total Section C | \$21,621 | \$55,641 | \$61,145 |

| | FY 1989 | FY 1990 | FY 1991 |
|--|--------------|--------------|-----------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$0 | \$0 | \$0 |
| 2. Contract Field Services | 0 | 300 | 300 |
| 3. Field Services Representatives | \$0 | \$25,955 | \$28,000 |
| Total Section D | \$0 | \$26,255 | \$28,300 |
| E. FFRDCs | (\$ 25,768) | (\$ 27,455) | \$ 28,591 |
| Total Section E | •(\$ 25,768) | •(\$ 27,455) | \$ 28,591 |
| Grand Total | \$21,621 | \$83,584 | \$123,534 |

•Total for FY89 and FY90 would have been \$47,389 and \$111,039 if FFRDCs were included.

Special Analysis- Weapon Systems/Generic Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation: 3740 (Operations and Maintenance, Air Force Reserve) Date: 31 Jan 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (IEC)

| | | | |
|--|-----|-----|-----|
| 1. Personnel Appointments | \$0 | \$0 | \$0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 0 | 0 | 0 |
| Total Section A | \$0 | \$0 | \$0 |

B. Studies, Analyses and Evaluation (SAE)

| | | | |
|-----------------------------------|-----|-----|-----|
| 1. Manpower and Personnel | \$0 | \$0 | \$0 |
| 2. Concepts and Plans | 0 | 0 | 0 |
| 3. Operations and Force Structure | 0 | 0 | 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$0 | \$0 |
| C. Management Support Services (MSS) | | | |
| 1. Program Management Support | \$0 | \$0 | \$0 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 0 | 0 | 0 |
| 6. Technical Data Collection | 0 | 0 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 0 | 0 |
| Total Section C | \$0 | \$0 | \$0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$ 0 | \$ 0 | \$ 0 |
| 2. Contract Field Services | 2,975 | 5,130 | 3,489 |
| 3. Field Service Representatives | 0 | 0 | 0 |
| Total Section D | 2,975 | 5,130 | 3,489 |
| E. FFRDCs | | | |
| Total Section E | \$ 0 | \$ 0 | \$ 0 |
| GRAND TOTAL | 2,975 | 5,130 | 3,489 |

Special Analysis- Weapon Systems/Generic Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

(Operation and Maintenance - Guard)

Appropriation: 3840 (Operation and Maintenance Guard) Date: 31 Jan 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (IEC)

| | | | |
|--|-----|-----|-----|
| 1. Personnel Appointments | \$0 | \$0 | \$0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 0 | 0 | 0 |
| Total Section A | \$0 | \$0 | \$0 |

B. Studies, Analyses and Evaluation (SAE)

| | | | |
|-----------------------------------|-----|-----|-----|
| 1. Manpower and Personnel | \$0 | \$0 | \$0 |
| 2. Concepts and Plans | 0 | 0 | 0 |
| 3. Operations and Force Structure | 0 | 0 | 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$0 | \$0 |
| C. Management Support Services (MSS) | | | |
| 1. Program Management Support | \$0 | \$0 | \$0 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 0 | 0 | 0 |
| 6. Technical Data Collection | 0 | 0 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 0 | 0 |
| Total Section C | \$0 | \$0 | \$0 |

D. Engineering and Technical Services (ETS)

| | FY 1989 | FY 1990 | FY 1991 |
|----------------------------------|---------|---------|---------|
| 1. Contract Plant Services | \$ 0 | \$ 0 | \$ 0 |
| 2. Contract Field Services | 4,850 | 9,286 | 6,899 |
| 3. Field Service Representatives | 0 | 0 | 0 |
| Total Section D | \$4,850 | \$9,286 | \$6,899 |

E. FFRDCs

| | | | |
|-----------------|------|------|------|
| Total Section E | \$ 0 | \$ 0 | \$ 0 |
|-----------------|------|------|------|

GRAND TOTAL

| | | | |
|--|---------|---------|---------|
| | \$4,850 | \$9,286 | \$6,899 |
|--|---------|---------|---------|

Special Analysis- Weapon Systems/Generic Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

| Appropriation: 4922 (Industrial Fund) | Date: 31 Jan 1990 | | |
|--|-------------------|------------|------------|
| | FY 1989 | FY 1990 | FY 1991 |
| A. Individual Experts and Consultants (IEC) | | | |
| 1. Personnel Appointments | 0 | 0 | 0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 0 | 0 | 0 |
| Total Section A | \$0 | \$0 | \$0 |
| B. Studies, Analyses and Evaluation (SAE) | | | |
| 1. Manpower and Personnel | 0 | 0 | 0 |
| 2. Concepts and Plans | 0 | 0 | 0 |
| 3. Operations and Force Structure | 0 | 0 | 0 |
| 4. Installations and Logistics | 0 | 0 | 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|--|---------|---------|---------|
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | 0 | 0 | 0 |
| C. Management Support Services (MSS) | | | |
| 1. Program Management Support | \$0 | \$0 | \$0 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 0 | 0 | 0 |
| 6. Technical Data Collection | 0 | 0 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 0 | 0 |
| Total Section C | 0 | 0 | 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|--|---------|---------|---------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$ 0 | \$ 0 | \$ 0 |
| 2. Contract Field Services | 1.719 | 2.515 | 246 |
| 3. Field Service Representatives | 0 | 0 | 0 |
| Total Section D | \$1.719 | \$2.515 | \$246 |
| E. FFRDCs | | | |
| Total Section E | \$ 0 | \$ 0 | \$ 0 |
| GRAND TOTAL | \$1.719 | \$2.515 | \$246 |

Vol. I

Special Analysis - Generic Services And Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

| Appropriation : Consolidated AF | | Date 31 Jan 1990 | |
|--|----------------|------------------|--------------|
| | FY 1989 | FY 1990 | FY 1991 |
| A. Individual Experts and Consultants (IEC) | | | |
| 1. Personnel Appointments | | | |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | | | |
| (1) Federal Advisory Committee Members | 8 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 1,675 | 1,065 | 155 |
| Total Section A | \$1,683 | \$1,065 | \$155 |
| B. Studies, Analyses and Evaluation (SAE) | | | |
| 1. Manpower and Personnel | \$2,740 | \$638 | \$483 |
| 2. Concepts and Plans | 3,900 | 3,825 | 5,276 |
| 3. Operations and Force Structure | 2,009 | 1,859 | 1,400 |
| 4. Installations and Logistics | 9,143 | 4,289 | 8,324 |
| 5. Science, Technology, System and Equipment | 2,522 | 991 | 678 |

Special Analysis - Generic Services And Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation: Consolidated, AF

| | FY 1989 | FY 1990 | FY 1991 |
|--------------------------------------|----------|----------|----------|
| 6. Management | 315 | 0 | 0 |
| 7. Intelligence | 298 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$20,927 | \$11,602 | \$16,161 |
| C. Management Support Services (MSS) | | | |
| 1. Program Management Support | \$15,199 | \$5,591 | \$2,446 |
| 2. Policy Review and Development | 1,460 | 5,300 | \$4,913 |
| 3. Specification Development | 829 | 407 | 155 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 200 | 0 | 0 |
| 6. Technical Data Collection | 837 | 0 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 1,434 | 1,481 | 1,378 |
| Total Section C | \$19,959 | \$12,779 | \$8,892 |

Special Analysis - Generic Services And Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation: Consolidated, AF

| | FY 1989 | FY 1990 | FY 1991 |
|---|--------------|--------------|-----------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$124 | \$ 0 | \$ 0 |
| 2. Contract Field Services | 200 | 0 | 0 |
| 3. Field Service Representatives | 166 | 26,060 | 28,000 |
| Total Section D | \$490 | \$26,060 | \$28,000 |
| E. FFRDCs | (\$ 21,998) | (\$ 23,487) | \$ 24,825 |
| Total Section E | •(\$ 21,998) | •(\$ 23,487) | \$ 24,825 |
| Grand Total | \$43,059 | \$51,506 | \$78,033 |

•Total for FY89 and FY90 would have been \$65,057 and \$74,993 if FFRDCs were included.

Special Analysis Generic Services And Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation : 3400 (Operations & Maintenance Active)

| | FY 1989 | FY 1990 | FY 1991 |
|--|---------|---------|---------|
| A. Individual Experts and Consultants (IEC) | | | |
| 1. Personnel Appointments | \$ 0 | \$ 0 | \$ 0 |
| a. Experts | 8 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 1,675 | 1,065 | 155 |
| Total Section A | \$1,683 | \$1,065 | \$155 |
| B. Studies, Analyses and Evaluation (SAE) | | | |
| 1. Manpower and Personnel | \$2,740 | \$638 | \$483 |
| 2. Concepts and Plans | 3,900 | 2,583 | 2,342 |
| 3. Operations and Force Structure | 2,009 | 1,859 | 1,400 |
| 4. Installations and Logistics | 9,143 | 4,289 | 8,324 |
| 5. Science, Technology, System and Equipment | 2,522 | 991 | 678 |

| | FY 1989 | FY 1990 | FY 1991 |
|--------------------------------------|----------|----------|----------|
| 6. Management | 315 | 0 | 0 |
| 7. Intelligence | 298 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$20.927 | \$10.360 | \$13.227 |
| C. Management Support Services (MSS) | | | |
| 1. Program Management Support | \$10.030 | \$5.591 | \$266 |
| 2. Policy Review and Development | 1.460 | 5.300 | 4.913 |
| 3. Specification Development | 829 | 407 | 155 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 200 | 0 | 0 |
| 6. Technical Data Collection | 837 | 0 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 852 | 731 | 628 |
| Total Section C | \$14.208 | \$12.029 | \$5.962 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|-----------|-----------|----------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$124 | \$ 0 | \$ 0 |
| 2. Contract Field Services | 200 | 0 | 0 |
| 3. Field Service Representatives | 166 | 105 | 0 |
| Total Section D | \$490 | \$105 | \$0 |
| E. FFRDCs | | | |
| | (\$ 160) | (\$ 167) | \$ 167 |
| Total Section E | •(\$ 160) | •(\$ 167) | \$ 167 |
| Grand Total | \$37,308 | \$23,559 | \$19,511 |

• Total for FY89 and FY90 would have been \$37,468 and \$23,726 if FFRDCs were included.

CATEGORY Individual Experts and Consultants

SUBCATEGORY Personal Appointments - Experts

STUDY Armed Services Board of Contract Appeals (ASBCA) Case No. 34739

(\$000)

| | | | | |
|-------------|-------------|-------------|-----------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| \$ 8 | \$ 0 | \$ 0 | TO FY90 | TO FY91 |
| | | | -8 | 0 |

MAJOR PURPOSE: Former termination contracting officer was required to consult with trial attorneys, assist in case preparation, and provide trial testimony as an expert witness. The former termination contracting officer had first-hand knowledge of the investigation and procedures leading to the termination and subsequent demand for damages.

EXPLANATION OF CHANGES (FY89 TO FY90): This is a one-time requirement in FY89.

EXPLANATION OF CHANGES (FY90 TO FY91): No change occurs between fiscal years.

CATEGORY Personal Appointments

SUBCATEGORY Contract Consultants

STUDY Various

| | | | | |
|-------------|-------------|----------------|-----------------|-----------------|
| | | <u>(\$000)</u> | | |
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| 1,398 | 900 | 0 | <u>TO FY90</u> | <u>TO FY91</u> |
| | | | - 498 | - 900 |

MAJOR PURPOSE: Provides contract assistance and advisory services in technical areas.

EXPLANATION OF CHANGES (FY89 to FY90): In FY89 we had five manyears; in FY90 we have three manyears.

EXPLANATION OF CHANGES (FY90 to FY91): No bogey.

CATEGORY: Individual Experts and Consultants

SUBCATEGORY: Contract Consultants

STUDY: Various

(\$000)

| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| 256.5 | 165.0 | 155.0 | - 91.5 | - 10.0 |

MAJOR PURPOSE: Consultants are needed to conduct environmental scanning through surveys to provide information to include customer demographics and expectations that will contribute significantly to AFCOMS future decisions on operational policy. This in turn will help improve customer service and have a positive impact on the Air Force retention program and Air Force quality of life.

EXPLANATION OF CHANGES (FY89 to FY90): FY89 program included a joint study with Army Troop Support Agency on central distribution centers. This was a one-time requirement for FY89. As a result, FY90 program decreased in comparison to FY89.

EXPLANATION OF CHANGES (FY90 to FY91): A decrease in the scope of consultant services required in FY91 resulted in program decrease.

CATEGORY Individual Experts and Consultants

SUBCATEGORY Contract Consultants

STUDY Total Quality Management (TQM) Implementation Plan

(#000)

| | | | | |
|-------------|-------------|-------------|-----------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| \$ 20 | \$ 0 | \$ 0 | TO FY90 | TO FY91 |
| | | | -20 | 0 |

MAJOR PURPOSE: Support was required in the development of an Air Force Logistics Command (AFLC) Total Quality Management implementation plan. This plan was integral to the planning and programming and implementing of the Department of Defense TQM program.

EXPLANATION OF CHANGES (FY89 TO FY90): This is a one-time requirement in FY89.

EXPLANATION OF CHANGES (FY90 TO FY91): No change occurs between fiscal years.

CATEGORY STUDIES, ANALYSES AND EVALUATION

SUBCATEGORY MANPOWER AND PERSONNEL

STUDY VARIOUS

| | <u>(\$000)</u> | | | |
|--|----------------|-------------|-------------|-----------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| | 380 | 149 | 49 | -231 |
| | | | | <u>+/- FY90 TO FY91</u> |
| | | | | -100 |

MAJOR PURPOSE: The Armstrong Aerospace Medical Research Laboratory (AAMRL) will administer an ongoing contract for AFMPC to analyze and update strength aptitude criteria for three Air Force specialities each year. The FY90 contract is \$88,000. If funding is reduced to \$49,000 in FY91, we will only be able to review one speciality for MAJCOMS/SOAs instead of three.

EXPLANATION OF CHANGES (FY89 to FY90): FY89 obligations included \$300,000 for a Permanent Change of Station (PCS) Cost Analysis Contract. We programmed for \$100,000 in FY90 to complete studies related to the Officer/Airman Evaluation programs.

EXPLANATION OF CHANGES (FY90 to FY91): The only contract required in FY91 is the AAMRL update of strength aptitude criteria for MAJCOMS/SOAs.

CATEGORY Studies Analyses and Evaluation
SUBCATEGORY 592BG, Manpower and Personnel
STUDY Master Unified Data Base

| | (\$000) | | | | |
|--|-------------|-------------|-------------|-----------------------------|-----------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| | 315 | 140 | 124 | <175> | <16> |

MAJOR PURPOSE: Utilizing the Master Unified Data Base for all Air Force Civilian Employees performs statistical analysis, as requested, by the Air Force attorneys and civilian personnel lists, to make risk assessments in EEO class action discrimination cases in litigation, In addition, they evaluate existing policies and procedures for Air Force civilian personnel management and make recommendations for increased defensibility of Air Force personnel procedures.

EXPLANATION OF CHANGES (FY 89 to FY 90): Project effort reduced by (\$55) and a Congressional cut of 30.1%.

EXPLANATION OF CHANGES (FY 90 to FY 91): Reduction is due to a Congressional cut of 40% on the initial FY 90 estimate. This is partially offset by inflation allowance of 3.3%.

CATEGORY Studies Analyses and Evaluation
SUBCATEGORY 592BG, Manpower and Personnel
STUDY DPXA Contracts

| | | | (\$000) | | | |
|-------------|-------------|-------------|-----------|-----------------|-----------------|-------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | | <u>+/- FY89</u> | <u>+/- FY90</u> | |
| | | | | <u>TO</u> | <u>TO</u> | <u>FY91</u> |
| 2045 | 349 | 310 | | | | <39> |

MAJOR PURPOSE: Major Purpose of DPXA contracts is to provide studies and analysis in a wide range of personnel topics including force structure, readiness and sustainability, manpower, training and personnel policy.

EXPLANATION OF CHANGES (FY 89 to FY 90): The FY 90 and outyear program was reduced by (\$1,347K) PBD #033C, which affected the transfer of the Armed Services Vocational Aptitude Battery Test (ASVAB) to OSD. The remaining DPXA contracts (\$500K) were reduced by the Congressional cut of 30.1%.

EXPLANATION OF CHANGES (FY 90 to FY 91): Reduction is due to a Congressional cut of 40% on the initial FY 90 estimate. This is partially offset by inflation allowance of 3.3%

CATEGORY: Studies, Analysis and Evaluation

SUBCATEGORY: Concepts and Plans

STUDY: NORAD Operational Requirements Planning Support

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 400 | 342 | 307 | - 58 |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | - 35 |

MAJOR PURPOSE: Contractor performs research, analysis, and develops requirements for data sources, timeliness, and method of display of ITW/AA, force managements, and C2 information. In addition, they research, analyze, and develop requirements and architectures for communications capabilities and functions in support of NORAD.

EXPLANATION OF CHANGES (FY89 to FY90): Congress-imposed budget reductions.

EXPLANATION OF CHANGES (FY90 to FY91): Congress-imposed budget reductions.

CATEGORY Studies, Analysis, and Evaluation

SUBCATEGORY Concepts and Plans

STUDY WSMC Range Operations

| | (\$000) | | |
|--|-------------|-------------|-----------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>+/- FY89 TO FY90</u> |
| | 480 | 288 | -192 |
| | | | <u>+10</u> |

MAJOR PURPOSE: These funds provide mandatory services for the performance of scientific and engineering analysis, furnishing sophisticated mathematical models and capabilities to support the flight safety mission of WSMC.

EXPLANATION OF CHANGES (FY89 TO FY90): Decrease due to Reimbursable Budget Authority offset.

EXPLANATION OF CHANGES (FY90 TO FY91): Inflation.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Concepts and Plans

STUDY: Ballistic Missile Defense Operational Concept Development

| | <u>(\$000)</u> | | | |
|-------------|----------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 842 | 514 | 461 | - 328 | - 53 |

MAJOR PURPOSE: Provides for analysis of how present and anticipated future technology might best be used as part of an expanded strategic defensive system. Provides a more comprehensive understanding of how available technologies can most effectively be applied in fulfilling mission responsibilities within the context of the threat, and the strategic, diplomatic, and political environments likely to be prevalent during the phased-deployment of these defensive systems.

EXPLANATION OF CHANGES (FY89 to FY90): Reduced because of Congressional CAAS funding cut and imposition of a limitation.

EXPLANATION OF CHANGES (FY90 to FY91): Additional reduction in CAAS funding and limitation.

CATEGORY Studies Analyses and Evaluation
SUBCATEGORY 592BH, Concepts and Plans
STUDY External Assistance Efforts

/

| | (\$000) | | |
|--|-------------|-------------|-------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | 2178 | 1439 | 1276 |
| | | | <739> |
| | | | <163> |

MAJOR PURPOSE: AF/SA requires contractual assistance to develop and maintain the analytical tools to perform in-house studies and analyses. The software programs and documentation provided through contracts are used by the analysts on computers to gain insights into the detailed relationships on force structure and force readiness issues under a variety of conditions. These techniques form the crucial core of in-house studies.

EXPLANATION OF CHANGES (FY 89 to FY 90): Reduction is due to a Congressional cut of 30.1%

EXPLANATION OF CHANGES (FY 90 to FY 91): Reduction is due to a Congressional cut of 40% on the initial FY 90 estimate. This is partially offset by inflation allowance of 3.3%.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Operations and Force Structure

STUDY: Analytical Support

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| <u>FY89</u> | | | <u>+/- FY90 TO FY91</u> |
| 450 | 342 | 308 | - 34 |

MAJOR PURPOSE: Provides for development of USSPACECOM reconstitution requirements, system level analysis of US and allied satellites, ballistic missile defense requirements and implementation analyses, and implementation and application of efficient automated simulations of Soviet ballistic missile attacks required for USSPACECOM operational effectiveness analyses and exercise planning.

EXPLANATION OF CHANGES (FY89 to FY90): Reduced because of Congressional CAAS funding cut and imposition of a limitation.

EXPLANATION OF CHANGES (FY90 to FY91): Additional reduction in CAAS funding and limitation.

CATEGORY: Studies, Analyses and Evaluation
SUBCATEGORY: Operations and Force Structure
STUDY: USSPACE Systems Analysis

| <u>(\$000)</u> | | | |
|----------------|-------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 250 | 223 | 200 | <u>+/- FY90 TO FY91</u> |
| | | | - 23 |
| | | | - 27 |

MAJOR PURPOSE: Provides support to analyze the results of exercises, contribute to the JCS C534 Evaluation Program, and use results of specific analysis tasks to make decisions which improve mission operations.

EXPLANATION OF CHANGES (FY89 to FY90): Reduced because of Congressional CAAS funding cut and imposition of a limitation. The design, execution and analysis of NORAD system exercises will be curtailed.

EXPLANATION OF CHANGES (FY90 to FY91): Additional reduction in CAAS funding and limitation.

CATEGORY: Studies, Analyses and Evaluation
SUBCATEGORY: Operations and Force Structure
STUDY: Assured Mission Support

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 200 | 206 | 185 | + 6 |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | - 21 |

MAJOR PURPOSE: Provides assistance to U.S. Space Command/J5S in defining operational requirements and concepts, formulating strategy, and developing integrated long range plans for conducting U.S. Space Command Space Support operations.

EXPLANATION OF CHANGES (FY89 to FY90): Estimated price change associated with sustained level of effort.

EXPLANATION OF CHANGES (FY90 to FY91): Reduction in CAAS funding and lower legal limitation.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Operations and Force Structure

STUDY: Space Operations Support Initiative

| | (\$000) | | | |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 300 | 363 | 326 | + 63 | - 37 |

MAJOR PURPOSE: Provides for development of an operations plan, test plan, and related documentation to support a major program designed to improve intelligence and operations support to USSPACECOM, JCS, the National Command Authorities, and other unified and specified commanders. Provides for a demonstration of enhanced performance utilizing the selective interfacing of national capabilities with organic asset collection capabilities.

EXPLANATION OF CHANGES (FY89 to FY90): Effort reaches first of two years of sustained peak activity which include completing of the operations plan, test plan and development of the project proposal.

EXPLANATION OF CHANGES (FY90 to FY91): Reduction represents fiscal constraints imposed by Congress on CAAS.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Operations and Force Structure

STUDY: Space Master Plan

| | <u>(\$000)</u> | | | |
|-------------|----------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 300 | 82 | 74 | - 218 | - 8 |

MAJOR PURPOSE: Provides for development of the baseline Space Master Plan document which will tie together existing architectures, plans, directives, and policies dealing with space. The contractor will perform analytical studies of new space initiatives and determine the impact on the Space Master Plan and associated milestone chart.

EXPLANATION OF CHANGES (FY89 to FY90): Reduction represents fiscal constraints imposed by Congress on CAAS.

EXPLANATION OF CHANGES (FY90 to FY91): Additional reduction in CAAS funding an limitation.

CATEGORY: Studies Analyses and Evaluation

SUBCATEGORY: Operations and Force Structure

STUDY: Range Scheduling

(\$000)

| | FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|--|-------|-------|-------|-----------------------|-----------------------|
| | 0 | 300 | 0 | +300 | -300 |

MAJOR PURPOSE: MITRE/Unisys Automated Range Scheduling (ARS) Support. The contractor provides technical analysis and prototyping to improve range scheduling techniques for the Remote Tracking Stations and communication connectivity within the worldwide Air Force Satellite Control Network (AFSCN).

EXPLANATION OF CHANGES (FY89 to FY90): In FY89 this study was classified as Concepts and Plans (MH). Upon review of the work being accomplished under this contract the subcategory has been changed to Operations and Force Structure (BI). Because of the CAAS Limitation cuts the level of effort is less in FY90. Eliminates technical analysis and prototype to improve range scheduling techniques for the Remote Tracking Stations and communication connectivity. Range scheduling facilities each requiring a full complement of schedulers.

EXPLANATION OF CHANGES (FY90 TO FY91): Additional CAAS limitation cuts from FY90. Delays the development of and transition to automatic range scheduling capability.

CATEGORY: Studies Analyses and Evaluation

SUBCATEGORY: Operations and Force Structure

STUDY: NORAD System Analysis

(\$000)

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|-------|-------|-------|-----------------------|-----------------------|
| 509 | 343 | 307 | -166 | -34 |

MAJOR PURPOSE: Contractor performs all exercise analysis and related tasks for both HQ NORAD and HQ USSPACECOM.

EXPLANATION OF CHANGES (FY89 to FY90): Congress-imposed budget reductions and CAAS limitation.

EXPLANATION OF CHANGES (FY90 TO FY91): Additional CAAS Budget Reductions.

CATEGORY: Studies Analyses and Evaluation
 SUBCATEGORY: INSTAL & LOGISTICS
 STUDY: VARIOUS

(\$000)

| | FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|--|-------|-------|-------|-----------------------|-----------------------|
| | 1,197 | 103 | 107 | -1,094 | +4 |

MAJOR PURPOSE: Small contracts awarded for feasibility studies to support technical training course development and environmental studies.

EXPLANATION of CHANGES (FY89 TO FY90): Environmental studies reporting is being deleted in FY90. These studies are not considered to be a part of the CAAS reporting procedures.

EXPLANATION of CHANGES (FY90 to FY91): Increases for this fiscal year is due to inflation.

CATEGORY Studies, Analyses, and Evaluation

SUBCATEGORY Installations and Logistics

STUDY Management Sciences Services

(\$000)

| | | | | |
|-------------|-------------|-------------|-----------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| \$ 525 | \$ 1,373 | \$ 1,783 | TO FY90 | TO FY91 |
| | | | +848 | +410 |

MAJOR PURPOSE: Management sciences services are required to provide short notice product-oriented management services skills in areas requiring expertise not resident within government services. Support is focused on lateral resupply policy and analytical studies of military readiness and sustainability problems.

EXPLANATION OF CHANGES (FY89 TO FY90): FY89 task includes final development of a simulation system looking at various scenarios of the lateral resupply policy. FY90 effort expands to include analytical studies of military problems, including readiness and sustainability, to provide Air Force Logistics Command staff a scientific basis for decisions on action to be taken to improve logistics support to the operating commands.

EXPLANATION OF CHANGES (FY90 TO FY91): FY91 increases include the development of models/algorithms for inclusion in data systems and use in simulations.

CATEGORY: STUDIES, ANALYSES and EVALUATION

SUBCATEGORY: Installations and Logistics

STUDY: Material Management and Database Support

(\$000)

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|-------|---------|-------|-----------------------|-----------------------|
| 2.425 | \$1.070 | \$856 | -1355 | -214 |

MAJOR PURPOSE: Material management support includes route movement risk assessment, development of network analysis parameters, and Unified Data Base support. Route of movement risk assessment contracts are prepared to comply with Department of Transportation regulations concerning the movement of hazardous chemicals such as Nitrogen Tetroxide and liquid Fluorine. Network analysis parameters are developed to enhance the capability to develop, maintain and assess schedule networks. Unified Data Base support provides system upgrade to include updated military standards.

EXPLANATION OF CHANGES (FY90 TO FY91): Route of movement risk assessment has a major update every three years with FY89 a peak year.

EXPLANATION OF CHANGES (FY90 TO FY91): Unified Data Base upgrade is completed in FY90.

CATEGORY Studies Analyses and Evaluation
SUBCATEGORY 592BJ, Installations and Logistics
STUDY Logistics Systems Development and Applications Project

| (\$000) | | | |
|-------------|-------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 4996* | 1743 | 5578 | <3253> |
| | | | +3835 |

MAJOR PURPOSE: The Logistics Systems Development & Applications Projects is comprised of high priority logistics studies, analyses, systems development and applications projects accomplished under contracts designed to solve Air Force logistics problems utilizing independent, unbiased and objective investigations of improved analytical techniques. Contractual arrangements for the above projects are cost effective. Contractor support in the development of working models is required because of data verification requirements. Contractor support will make the investigation and development of valuable budget and decision-making tools and objective process and available in much more realistic time periods.

Explanation of Changes (FY 89 to FY 90): Contract completed (\$-2503); a 30.1% Congressional cut was placed to these projects (\$-750)

Explanation of Changes (FY 90 to FY 91): Projects within LCMS, Logistics Command and Control, Supply 2000, Reliability and Maintainability 2000, and Strategic Planning have evolved and progressed rapidly in FY89 due to project successes and changing budgetary attitudes. These projects require continued contractor support because of the enormity of the computer programming, data gathering, and data verification requirements. Major alterations to the Logistics Systems Development and Applications Projects will be necessary in FY 90 and 91 due to the current Defense Management Review.

*Accounting records are overstated by \$1603; records were adjusted late in FY89 in 59200 and did not roll to the CAAS contract line.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Science, Technology, Systems and Equipment (592BK)

STUDY: Space Related Analysis Contract

(\$000)

| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| \$ 217 | \$ 200 | \$ -0- | -\$ 17 | -\$ 200 |

MAJOR PURPOSE: A multi-phased joint in-house/contracted conceptual study to investigate and implement the use of electronic combat (EC) in space. Radio frequency jamming was determined to be the greatest future threat to US satellites. The three EC applications being analyzed are warning of, protection from, and countering satellite attacks. The studies and the resulting white papers will serve to focus future research and development efforts.

EXPLANATION OF CHANGES (FY89 TO FY90): Due to Congressional levied limitations against total CAAS expenditures in FY90, our funds for FY90 are \$17,000 less than funds for FY89.

EXPLANATION OF CHANGES (FY90 TO FY91): This study has been completed.

STUDY Local Area Network (LAN)

MAJOR PURPOSE: Contractual support of the Command LAN. Developed circuits for components to use.

EXPLANATION OF CHANGES (FY89 to FY90): 1928th Communications Squadron will provide service.

EXPLANATION OF CHANGES (FY90 to FY91): None

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Science, Technology, Systems and Equipment

STUDY: Systems Program Management and Acquisition Support

(\$000)

| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| 1250 | 791 | 678 | - 459 | - 113 |

MAJOR PURPOSE: The North American Aerospace Defense Command (NORAD), the United States Space Command (USSPACECOM), and the Air Force Space Command (AFSPACECOM) require technical support in the acquisition, implementation, integration, and systems analysis of communications and computer components of the NORAD Command and Control System ("umbrella" system consisting of the command, control, communications, and intelligence systems supporting NORAD, USSPACECOM, and AFSPACECOM).

EXPLANATION OF CHANGES (FY89 to FY90): Reduction due to CAAS limitation imposed in FY90. Studies, analyses, and evaluations that are critical to the acquisition process will not be accomplished. This may result in fielding unreliable C⁴I systems which will cause severe degradation of all three commands' mission capabilities.

EXPLANATION OF CHANGES (FY90 to FY91): Reduction due to additional CAAS limitation reduction in FY91. Analyses and evaluations critical to the acquisition of C⁴I systems will be further curtailed.

CATEGORY Studies Analyses and Evaluation
SUBCATEGORY 592BK, Science, Technology,
Systems and Equipment
STUDY WIS PROGRAM

| (\$000) | | | | |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 700 | 0 | 0 | <700> | 0 |

MAJOR PURPOSE: The WIS Program updates ADP equipment and software at over 35 WWMCCS sites. The IBM contract provides a customer support center to answer telephone inquiries from the WWMCCS sites pertaining to technical and maintenance problems with the new equipment.

EXPLANATION OF CHANGES (FY 89 to FY 90): *CAAS contract was transferred in Apr 89.

EXPLANATION OF CHANGES (FY 90 to FY 91): N/A

* PBD 909C dated 22 Apr 89 transferred this program to DCA effective 1 Apr 89.

CATEGORY Studies Analyses and Evaluation
SUBCATEGORY 592BL, Management
STUDY Computer System Development Corporation

| (\$000) | | | |
|-------------|-------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 315 | 0 | 0 | <315> |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | 0 |

MAJOR PURPOSE: The Contractor will create and maintain a software model to provide program information on all Services/Agencies approved funding, expenditures, and procurement requirements by line item. This information will provide the backup support for the program manager's cost estimates as required for the PPBS cycle, programming reviews, and the Defense Acquisition Board Milestone requirements.

EXPLANATION OF CHANGES (FY 90 to FY 91): *CAAS contract was transferred in Apr 89.

EXPLANATION OF CHANGES (FY 90 to FY 91):

*PBD 909C dated 22 Apr 89 transferred this program to DCA effective 1 Apr 89.

CATEGORY Studies Analyses and Evaluation

SUBCATEGORY Intelligence

STUDY Development Intelligence Support Plan

(#000)

| | | | | |
|-------------|-------------|-------------|-----------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| \$ 298 | \$ 0 | \$ 0 | TO FY90 | TO FY91 |
| | | | -298 | 0 |

MAJOR PURPOSE: Technical and expert assistance is required to provide a survey of Air Force Logistics Command activities and develop an Intelligence Architecture Plan for short and long range planning. The plan identifies and establishes command intelligence requirements. The intent is to move the command into a proactive mode in intelligence operations.

EXPLANATION OF CHANGES (FY89 TO FY90): This is a one-time requirement in FY89.

EXPLANATION OF CHANGES (FY90 TO FY91): No change occurs between fiscal years.

CATEGORY: Services

SUBCATEGORY: Program Management Support (592CA)

STUDY: Automation of Logistics Functions

(\$000)

| | | | | |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| \$ 860 | \$ -0- | \$ -0- | -\$ 860 | \$ -0- |

MAJOR PURPOSE: The type of contracts to be let will consist of support for functional analysis and program plan development for automation of selected logistics functions in AFCSC.

EXPLANATION OF CHANGES (FY89 TO FY90): A one-time contract in FY89 for analysis and program plan development to enhance or rewrite the Stock Control & Distribution and the Financial Inventory Accounting system.

EXPLANATION OF CHANGES (FY90 TO FY91): No known requirements exist at this time for FY91.

CATEGORY: Services

SUBCATEGORY: Program Management Support (592CA)

STUDY: Logistics Management System (LMS)

(\$000)

| | | | | |
|-------------|-------------|-------------|-----------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| \$ 308 | \$ 111 | \$ -0- | - \$ 197 | - \$ 111 |

MAJOR PURPOSE: The type of contracts are to provide programming and hardware support for the continued participation in AFLC Logistics Management Systems (LMS) upgrades and the Microvax III computer system which provides centralized command and control over data bases, documents, and schedules for AFCSC.

EXPLANATION OF CHANGES (FY89 TO FY90): The bulk of our funding requirements were required in FY87. FY90 funding allowed continuing integration with Stock Control and Distribution (SC&D), plus the Contract Data Management System (CDMS) and the incorporation of PCC Codes.

EXPLANATION OF CHANGES (FY90 TO FY91): No known requirements at this time for FY91.

CATEGORY: Management Support Services

SUBCATEGORY: Program Management Support (592CA)

STUDY: Computer Security

(\$000)

| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| \$4,249 | \$2,537 | \$ -0- | -\$ 1,712 | -\$ 2,537 |

MAJOR PURPOSE: Provides technical assistance for computer and communications security for Air Force Computer Systems. This effort includes, but is not limited to, computer and communications security research and development, information systems security training, computer security trusted system verification and validation, and security test and evaluation.

EXPLANATION OF CHANGES (FY89 TO FY90): Although requirements have increased, funding for FY90 is reduced due to the ceiling placed on the CAAS Program by the Department of Defense. DoD Directive 5200.28 and the National Computer Security Act of 1987 require federal agencies to protect classified and unclassified data while being processed, stored, and manipulated by all computers and while being communicated by electronic means. To comply with the national and congressional mandated requirements will require specific technical expertise, available only in the commercial marketplace.

EXPLANATION OF CHANGES (FY90 TO FY91): No CAAS requirements for FY91.

CATEGORY Management Support Services
SUBCATEGORY Program Management Support
STUDY USAF Frequency Management

| | | | | |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| | | (S000) | | |
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| \$ 100 | \$ 105 | \$ 105 | \$ + 5 | \$ 0 |

MAJOR PURPOSE: Provides professional support services to USAF Frequency Management Center for handling radio spectrum regulatory and management actions.

EXPLANATION OF CHANGES (FY89 to FY90): Price increase.

EXPLANATION OF CHANGES (FY90 to FY91): None.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Various

| | <u>(\$000)</u> | | | |
|--|----------------|-------------|-------------|-----------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| | 921 | 860 | 0 | - 61 |
| | | | | <u>+/- FY90 TO FY91</u> |
| | | | | - 860 |

MAJOR PURPOSE: Joint Mission Analysis--NODAL analysis for each Joint Special Operations Forces.
 Space System Master Plan--Analysis of the impact of space systems on operations capabilities of worldwide special operations forces
 General Contract Support--Develop the planning, programming, and budgeting system for a C3 POM.

EXPLANATION OF CHANGES (FY89 to FY90): Space System Master Plan is a new requirement. Increase on the general contract support. Overall decrease is due to the completion of the Joint Advanced Special Operations Radio System (JASORS) Contract.

EXPLANATION OF CHANGES (FY90 to FY91): No bogey.

Management and Professional
Program Management Support
Operational Test and Evaluation (OT&E)

(\$ thousands)

| | | | | |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 2752 | 1796 | -0- | -956 | -1796 |

Major Purpose: To provide critical scientific and technical skills through a general support contract on a quick reaction basis to satisfactorily conduct the USAF Operational Test and Evaluation (OT&E) program.

Explanation of Changes (FY 89 to FY 90): The general support contract will terminate 30 June 90.

Explanation of Changes (FY 90 to FY 91): The general support contract is terminating 30 Jun 90. There is no requirement for Contracted Advisory and Assistance Services (CAAS) in FY 91.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Artificial Intelligence Consulting Service

(#000)

| | | | | |
|-------------|-------------|-------------|-----------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| \$ 5 | \$ 0 | \$ 0 | TO FY90 | TO FY91 |
| | | | -5 | 0 |

MAJOR PURPOSE: Contractor provided information services for research and analysis on Artificial Intelligence and expert system technologies.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract support in FY89 provided expertise on expert and knowledge based systems, natural language interfaces, voice systems, and three dimensional vision systems. No contract support was continued into FY90.

EXPLANATION OF CHANGES (FY90 TO FY91): No change occurs between fiscal years.

CATEGORY Management Support Services (MSS)
SUBCATEGORY 592CA, Program Management Support
STUDY MITRE Corporation

| | (\$000) | | |
|--|-------------|-------------|-------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | | <u>+/-</u> | <u>+/-</u> |
| | | <u>TO</u> | <u>TO</u> |
| | | <u>FY90</u> | <u>FY91</u> |
| | | | |
| | 350 | 0 | 0 |
| | | | <350> |

MAJOR PURPOSE: This contract with the MITRE Corporation provides the WIS JPMO with direct technical support in general engineering role. The contract also included rent for the WIS JPMO office space and ADP costs.

EXPLANATION OF CHANGES (FY 89 to FY 90): Contract was completed in FY 89.

EXPLANATION OF CHANGES (FY 90 to FY 91): N/A

CATEGORY Management Support Services (MSS)
SUBCATEGORY 592CA, Program Management Support
STUDY Science Applications Incorporated

| (\$000) | | | |
|-------------|-------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 485 | 182 | 161 | <303> |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | <21> |

MAJOR PURPOSE: Science Applications Incorporated. An integral part of the EW/C3CM analysis system development requires a mathematical description of the self-protection ECM effects against surface based SAM threats; also, the C3 systems associated with the integrated naval air defense systems threat need to be studied, evaluated and results couched in algorithmic terms to facilitate simulation of combat effects. Supporting data bases must be established to implement the developed analytical methodology.

EXPLANATION OF CHANGES (FY 89 to FY 90): Reduction is due to a Congressional cut of 30.1%.

EXPLANATION OF CHANGES (FY 90 to FY 91): Reduction is due to a Congressional cut of 40% on the initial FY 90 estimate. This is partially offset by inflation allowance of 3.3%.

CATEGORY Management Support Services (MSS)
SUBCATEGORY 592CB, Policy Review and Development
STUDY Air Base Operability Program

| | FY89 | FY90 | FY91 | +/- TO FY90 | +/- TO FY91 |
|-----------|-------------|-------------|-------------|------------------------|------------------------|
| (\$000) | | | | | |
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- TO FY90</u> | <u>+/- TO FY91</u> |
| | 452 | 316 | 280 | <136> | <36> |

MAJOR PURPOSE: Contract provides assistance in determining Air Base Operability program requirements, defining functional objectives, assessing proposed programs, and quantifying needed resources. Provides analytical services to meet these ABO objectives.

EXPLANATION OF CHANGES (FY 89 to FY 90): Reduction is due to a Congressional cut of 30.18

EXPLANATION OF CHANGES (FY 90 to FY 91): Reduction is due to a Congressional cut of 40% on the initial FY 90 estimate. This is partially offset by inflation allowance of 3.3%.

CATEGORY Management Support Services

SUBCATEGORY Policy Review and Development

STUDY Weapon System Warranty Program Implementation

(#000)

| | | | | |
|-------------|-------------|-------------|-----------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| \$ 170 | \$ 0 | \$ 0 | TO FY90 | TO FY91 |
| | | | -170 | 0 |

MAJOR PURPOSE: Contract support provided specialized corporate experience and expertise on warranty programs/issues to develop warranty provisions, clauses and plans for selected weapon systems. Support enables Warranty Program Administrators to develop local regulations, directives, and guidelines governing the application of warranties on weapon system acquisitions.

EXPLANATION OF CHANGES (FY89 TO FY90): This is a one-time requirement in FY89.

EXPLANATION OF CHANGES (FY90 TO FY91): No change occurs between fiscal years.

CATEGORY Management Support Services (MSS)
SUBCATEGORY 592CB, Policy Review and Development
STUDY Air Force Wide Mission Area Analysis

| (\$000) | | | |
|-------------|-------------|-------------|---------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | +/- FY89 TO FY90 |
| 0 | 4709* | 4438 | 4264 |
| | | | +/- FY90 TO FY91 |
| | | | 4264 |
| | | | <271> |

Contract Description: (MAJOR PURPOSE) To provide technical support for USAF, Air Force Wide Mission Area Analysis (AFWMAA) used by the Air Force Board Structure for POM development to evaluate the effects of budgetary decisions on Air Force warfighting capabilities and assessment.

EXPLANATION OF CHANGES (FY 89 to FY 90): Increase in requirements dictate an upgrade in software for model design and development. In March 1989 the Operational Capability Air Power Assessment Program (OCAPA) was established. This program is a family of interlocking projects to provide the AF/XO with the ability to assess, optimize, plan, account, and control force structure and force structure issues. Also, OCAPA provides for management information systems and decision aids for XO operations and XO inputs into the PPBS. Consolidation of AF/XO funding requirements from 92398F (\$637k) to 91216F. Also shown is the Congressional reduction of 30.1%.

EXPLANATION OF CHANGES (FY 90 to FY 91): Consolidation of AF/XO funding requirements from 92398F (\$637k) to 91216F. Also shown is the Congressional reduction of 40% on the initial FY 90 estimate. This is partially offset by inflation allowance of 3.3%.

*Program was overstated in Sep 89. The OBRC approved \$6.1M of the \$10.4M reported with the remaining \$4.3M being held at AFCC in PE 91216F.

CATEGORY Management Support Services (MSS)
SUBCATEGORY 592CB, Policy Review and Development
STUDY Air Force Wide Mission Area Analysis

| | (\$000) | | | |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 55 | 55 | 0 | 0 | <55> |

MAJOR PURPOSE: To provide technical support for USAF, Air Force Wide Mission Area Analysis (AFWMAA) used by the Air Force Board Structure for POM development to evaluate the effects of budgetary decisions on Air Force warfighting capabilities and assessment.

EXPLANATION OF CHANGES (FY 89 to FY 90): N/A

EXPLANATION OF CHANGES (FY 90 to FY 91): Consolidation of AF/XO funding requirements.

CATEGORY Management Support Services (MSS)
SUBCATEGORY 592CB, Policy Review and Development
STUDY MITRE Corporation

| | (\$000) | | | | |
|------|-----------|------|-------------------|-------------------|------|
| FY89 | FY90 | FY91 | +/- TO FY90 | +/- TO FY91 | <25> |
| 283 | 220 | 195 | <63> | | |

MAJOR PURPOSE: MITRE Corporation. JEWIC is preparing for production of the FY 90 DOD Electronic Warfare Plan to meet specific objectives set by Congress and promulgated by the DOD. MITRE technical staff will provide EW systems research in the areas of requirements and management plans and engineering in the areas of system assessments and operational integration.

EXPLANATION OF CHANGES (FY 89 to FY 90): Reduction is due to a Congressional cut of 30.1%

EXPLANATION OF CHANGES (FY 90 to FY 91): Reduction is due to a Congressional cut of 40% on the initial FY 90 estimate. This is partially offset by inflation allowance of 3.3%.

CATEGORY Management Support Services

SUBCATEGORY Specification Development

STUDY Modern Aids to Planning Program (MAPP)

| | <u>FY89</u> | <u>FY90</u> | <u>(\$000)</u> | <u>+/- FY89</u> <u>TO FY90</u> | <u>+/- FY90</u> <u>TO FY91</u> |
|--|-------------|-------------|------------------|-----------------------------------|-----------------------------------|
| | 156 | 232 | 0 | + 74 | - 232 |

MAJOR PURPOSE: Provides contractor support for the MAPP in computer simulation and analysis in support of USSOCOM plans, policy, and doctrine.

EXPLANATION OF CHANGES (FY89 to FY90): Additional manyear in FY90.

EXPLANATION OF CHANGES (FY90 to FY91): No bogey.

CATEGORY Management Support Services (MSS)
SUBCATEGORY 592CC, Specification Development
STUDY Space and Naval Warfare Systems

| | (\$000) | | | |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 200 | 175 | 155 | <25> | <20> |

MAJOR PURPOSE: Space and Naval Warfare Systems Command. Provides funding to support scheduled test efforts and to continue system development and contract services to provide improved operational test support to the Service test agencies, JCS and other DOD activities. This phase of the contract will cover additional and expanded capabilities to the two vans funded in past fiscal years to include the following areas: electronic support measures or ESM (receivers, antennas, portability), electronic countermeasures, or ECM (waveform generation, high power antennas, amplifiers), direction finding of DF (up to 40 GHz) and data processing equipment and software, or DP.

EXPLANATION OF CHANGES (FY 89 to FY 90): Reduction is due to a Congressional cut of 30.1%.

EXPLANATION OF CHANGES (FY 90 to FY 91): Reduction is due to a Congressional cut of 40% on the initial FY 90 estimate. This is partially offset by inflation allowance of 3.3%.

CATEGORY: Services

SUBCATEGORY: Technical Data Collection (592CF)

STUDY: Air Force Electronic Key Distribution System (AFEKDS)

(\$000)

| | | | | |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| \$ 340 | \$ -0- | \$ -0- | \$ -340 | \$ -0- |

MAJOR PURPOSE: Funds required for task order engineering services contract. Tasks will include design and development of system, product, software, facilities and interface specifications for the AF Electronic Key Distribution System (AFEKDS) program.

EXPLANATION OF CHANGES (FY89 TO FY90): FY89 funding was for initial development efforts and follow-on engineering support.

EXPLANATION OF CHANGES (FY90 TO FY91): No known requirements exist at this time for FY91.

CATEGORY: Services

SUBCATEGORY: Technical Data Collection (592CF)

STUDY: Tactical Secure Voice

(\$000)

| | | | | |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| \$ 460 | \$ -0- | \$ -0- | -\$ 460 | \$ -0- |

MAJOR PURPOSE: ESC/AFCSC is charged via PMD as the overall program manager for tactical Secure Voice in the Air Force. This tasking requires, among other things, that we evaluate, test and recommend the acquisition of COMSEC devices to satisfy our narrowband secure voice requirements.

EXPLANATION OF CHANGES (FY89 TO FY90): The Air Force is in the process of selecting a follow-on to the current family of narrowband secure voice devices. Services were performed in FY89 so test planning could begin in FY90 to ensure that results will be available before production decisions are made.

EXPLANATION OF CHANGES (FY90 TO FY91): No known requirements exist at this time for FY91.

CATEGORY Management Support Services

SUBCATEGORY Technical Data Collection

STUDY Technology Transfusion

(\$000)

| | | | | |
|-------|------|------|----------|----------|
| FY89 | FY90 | FY91 | +/- FY89 | +/- FY90 |
| \$ 37 | \$ 0 | \$ 0 | TO FY90 | TO FY91 |
| | | | -37 | 0 |

MAJOR PURPOSE: Contract support provided technical engineering to identify and research technologies and write, print, and distribute TECHTIPS. TECHTIPS enhanced the transfusion of technology applications across the Air Force to improve the logistics performance of weapon and support systems. TECHTIPS supported development of return of investment methodology for evaluation and advocacy of technologies and analysis of technologies by private firms.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract support is only provided in FY89. This effort was a proof of concept at a reduced level of effort.

EXPLANATION OF CHANGES (FY90 TO FY91): No change occurs between fiscal years.

CATEGORY Management Support Services

SUBCATEGORY Other

STUDY Exercise Manual

| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/ - FY89 TO FY90</u> | <u>+/ - FY90 TO FY91</u> |
|--|-------------|-------------|-------------|------------------------------|------------------------------|
| | 186 | 0 | 0 | - 186 | 0 |

MAJOR PURPOSE: To write and publish a USSOCOM exercise manual to enable USSOCOM and component commands to conduct joint exercises in a uniform manner.

EXPLANATION OF CHANGES (FY89 to FY90): Manual completed.

EXPLANATION OF CHANGES (FY90 to FY91): None

CATEGORY Management Support Services

SUBCATEGORY Other

STUDY Arbitrator and Litigation Support Services

(#000)

| | | | | |
|-------------|-------------|-------------|-----------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| \$ 633 | \$ 702 | \$ 599 | TO FY90 | TO FY91 |
| | | | +69 | -103 |

MAJOR PURPOSE: Contract support provides arbitrator services for conducting expedited arbitration hearings in accordance with local master labor agreements. The Air Force at San Antonio Air Logistics Center, Texas and Sacramento Air Logistics Center, California has class action discrimination suits in progress. In order to defeat the allegations of discrimination, contractors are hired to create and verify from documentation provided by unified data bases in regard to personnel actions which impact civilian employees at the two centers.

EXPLANATION OF CHANGES (FY89 TO FY90): The Sacramento Air Logistics Center, California discrimination action suit was filed in FY89. Full year contractor support in FY90 is the reason for the increase between fiscal years.

EXPLANATION OF CHANGES (FY90 TO FY91): The decrease to FY91 is due to funding constraints for this contractual support. The contractual effort is still required at the FY90 level.

CATEGORY: ENGINEERING TECHNICAL SERVICES

SUBCATEGORY: CONTRACT PLANT SERVICES

STUDY: CONTRACT TRAINING T-43

(\$000)

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|-------|-------|-------|-----------------------|-----------------------|
| 124 | 0 | 0 | -124 | 0 |

MAJOR PURPOSE: All T-43 pilots complete initial and annual refresher simulator training under a contract with United Airlines.

EXPLANATION OF CHANGES (FY89 TO FY90): All contract training in support of training courses and weapon systems is being deleted from the CAAS reporting procedures IAW Category D Engineering and Technical Services (ETS), Section A, paragraph 5g, Attachment 4, to AFR 800-44, Acquisition Management Contracted Advisory and Assistance Services (CAAS).

EXPLANATION OF CHANGES (FY90 TO FY91): No change

CATEGORY: **GENERIC:** Engineering and Technical Support

SUBCATEGORY: Contract Field Services (KEIC 584DG)

STUDY: **USAFE Operational Capability Assessment**

| (\$000) | | | |
|---------|------|------|---------------------|
| FY89 | FY90 | FY91 | +/- FY89 TO FY90 |
| 200 | - | - | +/- FY90 TO FY91 |
| | | | - |

MAJOR PURPOSE: CINCUSAFE requested an FY89 Task Order against SAF/LEX's existing contract with Synergy Inc. for assessment of the impact on the operational capability of USAF's force structure as a result of the CFE talks. USAF's delivery order includes computer software models that reflect various "what if" CFE force structure reductions, define the operational outcome of such reductions, and evaluate the impact.

EXPLANATION OF CHANGES (FY89 to FY90): The study was a one-time cost in FY89.

EXPLANATION OF CHANGES (FY90 to FY91): N/A

CATEGORY: ENGINEERING TECHNICAL SERVICES

SUBCATEGORY: FIELD SERVICE REPRESENTATIVES

STUDY: JSS/ROCC

(\$000)

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|-------|-------|-------|-----------------------|-----------------------|
| 166 | 105 | 0 | -61 | -105 |

MAJOR PURPOSE: CETS for Alaskan Regional Operations Control Center

EXPLANATION OF CHANGES (FY89 TO FY90): This contract will be terminated on 30 Apr 90. However, needed on-going maintenance services will not be available to Alaskan Air Command until contract maintenance can be added to an existing Long-Range Radar (contractor-operated) contract at the beginning of FY91. For the remainder of FY90, maintenance will be acquired on as-needed basis using AF EEIC 569.

EXPLANATION OF CHANGES (FY90 TO FY91): Contract termination.

Special Analysis - Generic Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation: 3600 (Research, Development, Test and Evaluation) Date: 31 Jan 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (IEC)

| | | | |
|--|-----|-----|-----|
| 1. Personnel Appointments | \$0 | \$0 | \$0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |

2. Contract Consultants

Total Section A \$0 \$0 \$0

B. Studies, Analyses and Evaluation (SAE)

| | | | |
|-----------------------------------|-----|-------|-------|
| 1. Manpower and Personnel | \$0 | \$0 | \$0 |
| 2. Concepts and Plans | 0 | 1,242 | 2,934 |
| 3. Operations and Force Structure | 0 | 0 | 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$1,242 | \$2,934 |

C. Management Support Services (MSS)

| | | | |
|-----------------------------------|---------|-------|---------|
| 1. Program Management Support | \$5,169 | \$0 | \$2,180 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 0 | 0 | 0 |
| 6. Technical Data Collection | 0 | 0 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 582 | 750 | 750 |
| Total Section C | \$5,751 | \$750 | \$2,930 |

FY 1989 FY 1990 FY 1991

D. Engineering and Technical Services (ETS)

| | | | |
|-----------------------------------|-----|----------|----------|
| 1. Contract Plant Services | \$0 | \$0 | \$0 |
| 2. Contract Field Services | 0 | 0 | 0 |
| 3. Field Services Representatives | 0 | 25,955 | 28,000 |
| Total Section D | \$0 | \$25,955 | \$28,000 |

E. FFRDCs

| | | | |
|-----------------|--------------|--------------|-----------|
| Total Section E | (\$ 21,838) | (\$ 23,320) | \$ 24,658 |
| | •(\$ 21,838) | •(\$ 23,320) | \$ 24,658 |

GRAND TOTAL \$ 5,751 \$ 27,947 \$ 58,522

•Total for FY89 and FY90 would have been \$27,589 and \$51,267 if FFRDCs were included.

CATEGORY Studies, Analysis, and Evaluation

SUBCATEGORY Concepts and Plans

STUDY Space Based Radar

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 1242 | 2934 | +1242 |
| | | | <u>+1692</u> |

MAJOR PURPOSE: This is needed to provide specialized cost estimating and analysis support for the Space Based Radar Program.

EXPLANATION OF CHANGES (FY89 TO FY90): Increase due to projected level of estimating activity in the demonstration/validation phase for a partial year.

EXPLANATION OF CHANGES (FY90 TO FY91): Increase due to projected level of estimating activity in the demonstration/validation phase for the entire fiscal year.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Various

| | | <u>(\$000)</u> | | |
|--|-------------|----------------|-------------|-----------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| | 5169 | 0 | 2180 | -5169 |
| | | | | <u>+/- FY90 TO FY91</u> |
| | | | | +2180 |

MAJOR PURPOSE: Technical evaluation acquisition management system contract was signed May 1989. The purpose of this contract is to gain AD support for all nonengineering functions. Various other management and support services.

EXPLANATION OF CHANGES (FY89 TO FY90): Due to FY90 limitation, various management and support contracts could not be included.

EXPLANATION OF CHANGES (FY90 TO FY91): Due to bogey limitations only a portion of the Armament Division support could be included.

CATEGORY Management Support Services

SUBCATEGORY Other

STUDY Small ICBM Peacekeeper Rail Garrison and Minuteman

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 582 | 750 | 750 | <u>+168</u> |
| | | | <u>0</u> |

MAJOR PURPOSE: Support specific to Rail Garrison includes Independent Cost Estimates used to strengthen the program office cost estimates; Independent Cost Analyses directed by SAF/OSD/Congress; development of an automated database and library which feed into an automated cost estimating model to be used in estimating Rail Garrison costs based on the Peacekeeper program; and development of models used in cost estimating for Rail Garrison program costs.

EXPLANATION OF CHANGES (FY89 TO FY90): \$750 was max possible for all options. Tasking for FY 89 did not require us to use the entire amount.

EXPLANATION OF CHANGES (FY90 TO FY91): None.

CATEGORY Engineering and Technical Services

SUBCATEGORY Field Service Representatives

STUDY A76 Project

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 25955 | 28000 | <u>+2045</u> |

MAJOR PURPOSE: Technical engineering and acquisition support is a A76 project with a five-year option contract. The contract is in contract year 4. Its primary definition is engineering support.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): The entire annual effort will be covered in FY91.

Special Analysis- Weapon Systems Services And Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

| Appropriation : Consolidated. AF | Date 31 JAN 1990 | | |
|--|------------------|---------|---------|
| | FY 1989 | FY 1990 | FY 1991 |
| | | | |
| A. <u>Individual Experts and Consultants (IEC)</u> | | | |
| 1. Personnel Appointments | 0 | 0 | 0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 0 | 0 | 132 |
| Total Section A | \$ 0 | \$ 0 | \$132 |
| | | | |
| B. <u>Studies, Analyses and Evaluation (SAE)</u> | | | |
| 1. Manpower and Personnel | \$ 0 | \$ 0 | \$ 0 |
| 2. Concepts and Plans | 7.952 | 5.063 | 5.163 |
| 3. Operations and Force Structure | 8.699 | 6.446 | 5.325 |
| 4. Installations and Logistics | 177 | 0 | 0 |
| 5. Science, Technology, System and Equipment | 8.909 | 6.750 | 7.944 |

| | FY 1989 | FY 1990 | FY 1991 |
|--------------------------------------|----------|----------|----------|
| 6. Management | 0 | 446 | 446 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$25,737 | \$18,713 | \$18,878 |
| C. Management Support Services (MSS) | | | |
| 1. Program Management Support | \$14,248 | \$71,124 | \$68,583 |
| 2. Policy Review and Development | 150 | 0 | 0 |
| 3. Specification Development | 2,407 | 266 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 1,876 | 4,253 | 3,927 |
| 6. Technical Data Collection | 10 | 2,019 | 1,558 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 21 | 1,292 | 1,237 |
| Total Section C | \$18,712 | \$78,954 | 75,305 |

| | FY 1989 | FY 1990 | FY 1991 |
|--|--------------------|--------------------|------------------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$10,210 | \$ 0 | \$ 0 |
| 2. Contract Field Services | 46,688 | 43,663 | 30,356 |
| 3. Field Service Representatives | 559 | 417 | 145 |
| Total Section D | \$57,457 | \$44,080 | 30,501 |
| E. FFRDCs | | | |
| | (\$18,637) | (\$19,313) | \$20,010 |
| Total Section E | •(\$18,637) | •(\$19,313) | \$20,010 |
| Grand Total | \$101,906 | \$141,747 | \$144,826 |

•Total for FY89 and FY90 would have been \$120,543 and \$161,060 if FFRDCs were included.

Special Analysis- Weapon Systems Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation: 3010 (Aircraft Procurement) Date: 31 Jan 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (IEC)

| | | | |
|--|-----|-----|-----|
| 1. Personnel Appointments | \$0 | \$0 | \$0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 0 | 0 | 0 |
| Total Section A | \$0 | \$0 | \$0 |

B. Studies, Analyses and Evaluation (SAE)

| | | | |
|-----------------------------------|-----|-----|-----|
| 1. Manpower and Personnel | \$0 | \$0 | \$0 |
| 2. Concepts and Plans | 0 | 0 | 0 |
| 3. Operations and Force Structure | 0 | 0 | 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$0 | \$0 |

C. Management Support Services (MSS)

| | | | |
|-----------------------------------|-------|---------|---------|
| 1. Program Management Support | \$0 | \$135 | \$135 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 227 | 2,625 | 2,645 |
| 6. Technical Data Collection | 0 | 278 | 286 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 0 | 0 |
| Total Section C | \$227 | \$3,036 | \$3,066 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$0 | \$0 | \$0 |
| 2. Contract Field Services | 0 | 0 | 0 |
| 3. Field Services Representatives | 0 | 0 | 0 |
| Total Section D | \$0 | \$0 | \$0 |
| E. FFRDCs | \$0 | \$0 | \$0 |
| Total Section E | \$0 | \$0 | \$0 |
| Grand Total | \$227 | \$3,036 | \$3,066 |

CATEGORY Management Support Services
SUBCATEGORY Logistics Support Services
STUDY C17A

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 1025 | 945 | <u>+1025</u> |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | -80 |

MAJOR PURPOSE: Provides contracting and testing support.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Less support required.

CATEGORY Management Support Services
SUBCATEGORY Logistics Support Services
STUDY C17A

| | | <u>(\$000)</u> | | |
|-------------|-------------|----------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 227 | 1600 | 1700 | +1373 | +100 |

MAJOR PURPOSE: Provides logistics support for the C17A.

EXPLANATION OF CHANGES (FY89 TO FY90): FY89 funded partial effort. FY90 funds full year.

EXPLANATION OF CHANGES (FY90 TO FY91): Inflation adjustment.

CATEGORY Management Support Services
SUBCATEGORY Tech Data Collection
STUDY MH60G, MC-130H, AC-130U

| | <u>(\$000)</u> | | |
|--|----------------|-------------|-----------------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | 0 | 276 | 286 |
| | | | +276 |
| | | | <u>+/- FY89</u> <u>TO FY90</u> |
| | | | <u>+/- FY90</u> <u>TO FY91</u> |
| | | | +10 |

MAJOR PURPOSE: Management Support Services providing technical data collection.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Increase is due to program maturity.

Special Analysis- Weapon Systems Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ in Thousands)

Appropriation: 3020 (Missile Procurement)

Date: 31 Jan 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (JEC)

1. Personnel Appointments

a. Experts

\$0 \$0 \$0

b. Consultants

0 0 0

(1) Federal Advisory Committee Members

0 0 0

(2) All other Appointed Consultants

0 0 0

2. Contract Consultants

0 0 0

Total Section A

\$0 \$0 \$0

B. Studies, Analyses and Evaluation (SAE)

1. Manpower and Personnel

\$0 \$0 \$0

2. Concepts and Plans

0 0 0

3. Operations and Force Structure

0 0 0

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$0 | \$0 |

C. Management Support Services (MSS)

| | | | |
|-----------------------------------|-----|-------|-----|
| 1. Program Management Support | \$0 | \$50 | \$0 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 0 | 215 | 0 |
| 6. Technical Data Collection | 0 | 0 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 0 | 0 |
| Total Section C | \$0 | \$265 | \$0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|-------------|-------------|----------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$0 | \$0 | \$0 |
| 2. Contract Field Services | 0 | 0 | 0 |
| 3. Field Services Representatives | 0 | 0 | 0 |
| Total Section D | \$0 | \$0 | \$0 |
| E. FFRDCs | (\$ 5.501) | (\$ 5.777) | \$ 6.485 |
| Total Section E | •(\$ 5.501) | •(\$ 5.777) | \$ 6.485 |
| Grand Total | \$0 | \$265 | \$ 6.485 |

•Total for FY89 and FY90 would have been \$5.501 and \$6.042 if FFRDCs were included.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Maverick

| | (\$000) | | |
|--|-------------|-------------|-----------------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | 0 | 50 | 0 |
| | | | +50 |
| | | | <u>+/- FY89</u> <u>TO FY90</u> |
| | | | <u>+/- FY90</u> <u>TO FY91</u> |
| | | | -50 |

MAJOR PURPOSE: In-depth analysis of Value Engineering Change Proposals to include analysis of standard hours, all manufacturing support costs, and review of production non-recurring implementation and sustaining costs including Logistics support.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Government personnel should have high level of expertise to do all analysis. Level of effort reduced due to phase of program.

Special Analysis- Weapon Systems Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ in Thousands)

Appropriation: 3080 (Other Procurement) Date: 31 Jan 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (IEC)

| | | | |
|--|-----|-----|-----|
| 1. Personnel Appointments | \$0 | \$0 | \$0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 0 | 0 | 0 |
| Total Section A | \$0 | \$0 | \$0 |

B. Studies, Analyses and Evaluation (SAE)

| | | | |
|-----------------------------------|-----|-----|-----|
| 1. Manpower and Personnel | \$0 | \$0 | \$0 |
| 2. Concepts and Plans | 0 | 0 | 0 |
| 3. Operations and Force Structure | 0 | 0 | 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$0 | \$0 |

| | FY 1989 | FY 1990 | FY 1991 |
|--------------------------------------|---------|----------|----------|
| C. Management Support Services (MSS) | | | |
| 1. Program Management Support | \$0 | \$14,800 | \$10,537 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 0 | 1,213 | 1,282 |
| 6. Technical Data Collection | 0 | 1,733 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 1,292 | 1,237 |
| Total Section C | \$0 | \$19,038 | \$13,056 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|------------|-------------|----------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$0 | \$0 | \$0 |
| 2. Contract Field Services | 0 | 0 | 0 |
| 3. Field Services Representatives | 0 | 0 | 0 |
| Total Section D | \$0 | \$0 | \$0 |
| E FFRDCs | | | |
| | (\$1,741) | (\$ 1,836) | \$1,937 |
| Total Section E | •(\$1,741) | •(\$ 1,836) | \$1,937 |
| Grand Total | \$0 | \$19,038 | \$14,993 |

•Total for FY89 and FY90 would have been \$1,741 and \$20,874 if FFRDCs were included.

CATEGORY Management Support Services

SUBCATEGORY Logistic Support Services

STUDY Various

| | | <u>(\$000)</u> | | |
|-------------|-------------|----------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 0 | 1213 | 1282 | +1213 | +69 |

MAJOR PURPOSE: Technical Engineering Management support provides support services in the field of logistics for the TRI-TAC and for the Systems Engineering and Integration support for the Physical Security Systems Directorate.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Minimal increase is due to projected inflation for the various programs.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Over-the-Horizon Backscatter Radar Program

| | <u>(\$000)</u> | | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
|-------------|------------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | | |
| 0 | 6343 | 3598 | +6343 | |

MAJOR PURPOSE: These contracts provide needed expertise not presently available due to manpower constraints.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): An increase of \$2,745K exists due to slip in the East Coast Radar Site Radar System Schedule, for increased support for the acquisition of the Central Radar Site, and the need for oversight in the ongoing Alaskan Radar Site; but due to bogey constraints, this program will be unfunded.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Satellite Alert Force Employment (SAFE)

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 1776 | 1912 | <u>+/- FY90 TO FY91</u> |
| | | | +136 |

MAJOR PURPOSE: Systems Engineering Support and Integration (SESI) support to the Physical Security Systems Directorate Contract F19628-86-C-0143 completed in FY89. Contracts F19628-89-D-0034 and F19628-90-D-0001 for 3 years starting in FY90.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirements existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Inflation allowance included in FY91.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY North Warning System

| | <u>(\$000)</u> | | |
|--|----------------|-------------|-----------------------------|
| | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| | 0 | 1266 | |
| | | 1329 | <u>+1266</u> |
| | | | <u>+63</u> |

MAJOR PURPOSE: Technical and Engineering Management Support (TEMS). The TEMS contract concerns the engineering management support for communications, site activation planning, logistics analysis, data and configuration and program control support.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Minor increase projected due to inflation.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Various

| | <u>(\$000)</u> | | |
|--|----------------|-------------|-----------------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | 0 | 1252 | 0 |
| | | | +1252 |
| | | | <u>+/- FY89</u> <u>TO FY90</u> |
| | | | <u>+/- FY90</u> <u>TO FY91</u> |
| | | | -1252 |

MAJOR PURPOSE: Technical and Engineering Management Support provided for the physical Security Systems contract and data monitoring/management, configuration control acquisition planning for the Unified Local Area Network Architecture (ULANA).

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Various contracts could not be covered within bogey provided.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY FAA/Air Force Radar Replacement Program (FARR)

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 1535 | 1564 | +1535 |
| | | | <u>+29</u> |

MAJOR PURPOSE: To provide technical engineering support to the Air Force Deputy Program Manager at the Joint Program Office and SPO during the major system acquisition of forty long distance radars.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Increase was due to a known rate adjustment.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Ground Wave Emergency Network (GWEN)

| | (\$000) | | | |
|--|-------------|-------------|-------------|-----------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| | 0 | 1718 | 1034 | +1718 |
| | | | | <u>+/- FY90 TO FY91</u> |
| | | | | -684 |

MAJOR PURPOSE: Technical Engineering Management Support (TEMS) contractor provides support for program control, logistics, site activation, and test evaluation to the GWEN program. Contractor assists in preparation and review of documentation, plans, and other program requirements needed to provide necessary visibility for the program decision making process.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Decrease in requirements due to the completion of many siting activities.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Atmospheric Tactical Warning Connectivity (ATWC)

| | | <u>(\$000)</u> | | |
|-------------|-------------|----------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 0 | 910 | 1100 | +910 | +190 |

MAJOR PURPOSE: Technical and Engineering Support (TEMS). The TEMS contract concerns the engineering management support for the ATWC Program Office. Support includes preparation of specifications, statement of work, request for proposal and contract management plans. SSAI F19628-86-D-0010-0133.

EXPLANATION OF CHANGES (FY89 TO FY90): Change due to efforts required to develop and issue a Request for Proposal (RFP) for the expected production contract.

EXPLANATION OF CHANGES (FY90 TO FY91): Change due to additional efforts required in carrying out production.

CATEGORY Management Support Services

SUBCATEGORY Technical Data Collection

STUDY Survivability Base Communicating System (SBCS)

| <u>(\$000)</u> | | | |
|----------------|-------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 1212 | 0 | +1212 |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | -1212 |

MAJOR PURPOSE: The effort consists of project management, systems engineering, communications engineering, systems analysis, test, and evaluation, configuration management administrative support.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): FY91 effort is not required.

CATEGORY Management Support Services
SUBCATEGORY Technical Data Collection
STUDY ULANA

| | <u>(\$000)</u> | | |
|--|----------------|-------------|-------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | 0 | 521 | 0 |
| | | | +521 |
| | | | -521 |

+/- FY89
TO FY90

+/- FY90
TO FY91

MAJOR PURPOSE: The System Engineering Management Support for the Unified Local Area Network Architecture ULANA effort will provide the Program Office with test management, data monitoring/management, configuration control, acquisition planning/actions, a documented ordering system and the support necessary to resolve technical issues.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): No requirement.

CATEGORY Management Support Services

SUBCATEGORY Other

STUDY Combat Theatre Communications (TRI-TAC)

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 1184 | 1237 | +1184 |
| | | | +53 |

MAJOR PURPOSE: TRI-TAC Program. TEMS provides management support services as a supplement to ESD resources. Contractors are Horizons Technology Inc. (HTI), #86-D-0007-315 and Analytical Systems Engineering Corp. (ASEC), #89-D-0005.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System. The majority of this requirement was deferred to FY 90 pending award of production contracts.

EXPLANATION OF CHANGES (FY90 TO FY91): Inflation adjustment.

STUDY VARIOUS

129

Special Analysis- Weapon Systems Services And Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation : 3400 (Operations & Maintenance Active) Date 31 JAN 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (IEC)

| | | | |
|--|---|---|---|
| 1. Personnel Appointments | 0 | 0 | 0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 0 | 0 | 0 |

Total Section A

\$0 \$0 \$0

B. Studies, Analyses and Evaluation (SAE)

| | | | |
|--|-------|-------|-------|
| 1. Manpower and Personnel | \$0 | \$0 | \$0 |
| 2. Concepts and Plans | 7.952 | 5.063 | 5.163 |
| 3. Operations and Force Structure | 8.699 | 6.446 | 5.325 |
| 4. Installations and Logistics | 177 | 0 | 0 |
| 5. Science, Technology, System and Equipment | 8.909 | 6.758 | 5.958 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|----------|----------|----------|
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$25,737 | \$18,267 | \$16,446 |
| C. <u>Management Support Services (MSS)</u> | | | |
| 1. Program Management Support | \$0 | \$1,248 | \$968 |
| 2. Policy Review and Development | 150 | 0 | 0 |
| 3. Specification Development | 2,407 | 266 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 48 | 200 | 0 |
| 6. Technical Data Collection | 10 | 10 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 0 | 0 |
| Total Section C | \$2,615 | \$1,724 | \$968 |

| | FY 1989 | FY 1990 | FY 1991 |
|--|-------------|-------------|----------|
| D. <u>Engineering and Technical Services (ETS)</u> | | | |
| 1. Contract Plant Services | \$10,210 | \$0 | \$0 |
| 2. Contract Field Services | 37,144 | 26,432 | 19,422 |
| 3. Field Service Representatives | 559 | 417 | 145 |
| Total Section D | \$48,403 | \$26,849 | \$19,567 |
| E. FFRDCs | (\$7,465) | (\$7,565) | \$ 7,655 |
| Total Section E | • (\$7,465) | • (\$7,565) | \$ 7,655 |
| Grand Total | \$76,265 | \$46,840 | \$44,636 |

•Total for FY89 and FY90 would have been \$83,730 and \$54,405 if FFRDCs were included.

CATEGORY: Studies Analyses and Evaluation

SUBCATEGORY: Concepts and Plans

STUDY: Range Scheduling

(\$000)

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|-------|-------|-------|-----------------------|-----------------------|
| 954 | 0 | 0 | -954 | 0 |

MAJOR PURPOSE: MITRE/Unisys Automated Range Scheduling (ARS) Support. The contractor provides technical analysis and prototyping to improve range scheduling techniques for the Remote Tracking Stations and communication connectivity within the worldwide Air Force Satellite Control Network (AFSCN).

EXPLANATION OF CHANGES (FY 89 to FY90): Upon review of the work being accomplished on this contract the subcategory has been changed to Operations and Force Structure (BI).

EXPLANATION OF CHANGES (FY 90 to FY91): No change.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Concepts and Plans

STUDY: System Engineering Support for the Integrated TW/AA SEM & the System Integration Office (SIO)

| | (\$000) | | | |
|-------|---------|-------|---------------------|---------------------|
| | FY90 | FY91 | +/- FY89 TO FY90 | +/- FY90 TO FY91 |
| 4,161 | 4,229 | 4,229 | + 68 | 0 |

MAJOR PURPOSE: Support for the Integrated TW/AA System Executive Manager and the System Integration Office (SIO). Provides end-to-end system engineering support to the ITW&A System and its supporting mission areas to ensure that operational requirements are satisfied and technical integrity is retained through technically feasible, integrated, system evolutionary and cost effective system improvements, acquisition, and integration. Support consists of planning, analyzing, engineering, designing, and testing efforts needed to define, document, and evolve the ITW&A System. Provides mission critical expertise directly supporting the SIO's ability to eliminate technical deficiencies within the ballistic missile, space, and atmospheric warning systems, to ensure technical integrity of the Integrated TW/AA System.

EXPLANATION OF CHANGES (FY 89 to FY 90): Annual price increase for same level of support as provided in FY89.

EXPLANATION OF CHANGES (FY 90 to FY 91): No change.

CATEGORY: Studies, Analysis and Evaluation

SUBCATEGORY: Concepts and Plans

STUDY: TENCAP

| | <u>(\$000)</u> | | | |
|-------------|----------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 500 | 372 | 358 | - 128 | - 14 |

MAJOR PURPOSE: The purpose of the Tactical Exploitation of National Systems Capabilities (TENCAP) program is to improve the combat effectiveness of the Air Force by more effective use of national systems. This contract conducts requirements analyses, concept development and implementation, technical analyses, prototype development, and exercise and special project support. The activities focus on the means to process, exploit, and disseminate data to Air Force operators. The contract also develops modifications to doctrine, tactics, and organizational structures in order to use available data more effectively.

EXPLANATION OF CHANGES (FY89 to FY90): Reduction is a result of downward directed reductions in CAAS funding and limitation.

EXPLANATION OF CHANGES (FY90 to FY91): Reduction is a result of additional cuts to the CAAS program in FY91.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Concepts and Plans

STUDY: Strategic Defense Operational Planning Support

\$000)

| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| 172 | 0 | 0 | - 172 | 0 |

MAJOR PURPOSE: Provides technical/analytic support to AFSPACOM development of operational requirements and operational concepts for Ballistic Missile Defense BMD. Supports development of broad operational parameters for evaluating SDI system and BM/C3 architecture studies including systems/technologies; formation of operations concepts; quantitative aspects of Air Force element requirements; and phased integration of BMD systems into the evolving strategic force structure. Supports definition of requirements, interfaces and activities for the National Test Bed. Identifies operational survivability requirements and evaluates the existing space support infrastructure for the Strategic Defense System. Funding supplements that from SDIO, allows some independence of effort and demonstrates further Command commitment to its BMD planning responsibilities.

EXPLANATION OF CHANGES (FY89 to FY90): Congressionally directed reduction in CAAS.

EXPLANATION OF CHANGES (FY90 TO FY91): No Change.

CATEGORY: Studies, Analysis, and Evaluation

SUBCATEGORY: Concepts and Plans

STUDY: TRI-SPIN

| | <u>(\$000)</u> | | |
|-------------|------------------|-------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> |
| 263 | 0 | 0 | <u>TO FY90</u> |
| | | | <u>+/- FY90</u> |
| | | | <u>TO FY91</u> |
| | | | 0 |

MAJOR PURPOSE: This is a classified program.

EXPLANATION OF CHANGES (FY89 to FY90): Award of the contract was deferred because of the Congressional limitation on CAAS contracts.

EXPLANATION OF CHANGES (FY90 to FY91): No change.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Concepts and Plans

STUDY: Space Plan

| | <u>(\$000)</u> | | | |
|-------------|----------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 237 | 0 | 0 | - 237 | 0 |

MAJOR PURPOSE: AFSPACECOM Deputy Chief of Staff, Plans (XP) is tasked by USAF headquarters to support the development and revision of the U.S. Air Force Space Plan which establishes the long range goals, requirements, and plans for Air Force Space Systems. The contractor will do: requirements analysis, system capability evaluation, concept and technology evaluation, tradeoff analysis and program planning. The ground-related systems include all ground-based facilities required to interface and support space operations such as surveillance sensors, launch systems, satellite control systems, and supporting infrastructure. The contractor will also review survivability and security of space systems to include communications and telemetry links.

EXPLANATION OF CHANGES (FY89 to FY90): Congressionally directed CAAS limitation and funding reductions have forced deferment of this contract.

EXPLANATION OF CHANGES (FY90 to FY91): No change.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Concepts and Plans

STUDY: AEROSPACE Support

| <u>(\$000)</u> | | | |
|----------------|-------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 446 | 462 | 576 | + 16 |
| | | | <u>+ 114</u> |

MAJOR PURPOSE: Contractor assistance is needed by HQ AFSPACOM to assist in managing the Air Force Satellite Control Network (AFSCN) which was transferred from AFSC to AFSPACOM on 1 Oct 87. Support includes defining network engineering and operation relationships between the two commands, and developing AFSCN asset management and control studies/scenarios for both peacetime and wartime environments. Additionally, AEROSPACE will assist in developing and implementing long range plans (e.g., the Satellite Control Architecture) to improve the AFSCN operation and survivability.

EXPLANATION OF CHANGES (FY89 to FY90): Contract inflation. No additional man years.

EXPLANATION OF CHANGES (FY90 to FY91): FY91 adds one additional man year to work DoD mobilization issues.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Concepts and Plans

STUDY: Boost Surveillance and Tracking System (BSTS) Support

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| <u>FY89</u> | | | <u>+/- FY90 TO FY91</u> |
| 325 | 0 | 0 | - 325 |
| | | | 0 |

MAJOR PURPOSE: Supports the development of the operational concept for the Boost Surveillance and Tracking System (BSTS). The scope of this effort includes identifying, analyzing, refining, and documenting Air Force Space Command operational concept requirements for BSTS. In addition, the contractor provides technical and engineering support to Air Force Space Command during the source selection process.

EXPLANATION OF CHANGES (FY89 to FY90): Funds not available within Command resources.

EXPLANATION OF CHANGES (FY90 to FY91): No Change

CATEGORY: STUDIES, ANALYSIS and EVALUATION

SUBCATEGORY: CONCEPT and PLAN S

STUDY: Advanced Launch System (ALS) Support

(\$000)

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|-------|-------|-------|-----------------------|-----------------------|
| 516 | 0 | 0 | -516 | 0 |

MAJOR PURPOSE: Contractor conducts ALS operations and satellite launch support requirements analysis, reviews system designs, prepares application studies, and develops statements of need (SONs).

EXPLANATION OF CHANGES (FY89 TO FY90): Congress-imposed budget reductions and CAAS limitation reduced available CAAS funding. This item was a low priority and was deferred.

EXPLANATION OF CHANGE (FY90 TO FY91): No change.

CATEGORY: Studies Analyses and Evaluation

SUBCATEGORY: Concepts and Plans

STUDY: Space Systems Support (NAVSTAR GPS)

(\$000)

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|-------|-------|-------|-----------------------|-----------------------|
| 378 | 0 | 0 | -378 | 0 |

MAJOR PURPOSE: The contractor provided technical and analytical support for requirements development.

EXPLANATION OF CHANGES (FY89 to FY90): One time requirement completed in FY89.

EXPLANATION OF CHANGES (FY90 to FY91): No change.

CATEGORY: Studies Analyses and Evaluation

SUBCATEGORY: OPERATION and Force Structure

STUDY: Future Launch Planning

(\$000)

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|-------|-------|-------|-----------------------|-----------------------|
| 500 | 0 | 0 | -500 | 0 |

MAJOR PURPOSE: Provided technical support to study Global Positioning System and other satellite systems future Launch requirements. Required to develop the Advanced Launch System (ALS) Systems Operational Requirements Documents (SORD).

EXPLANATION OF CHANGES (FY89 to FY90): One-time requirement in FY89.

EXPLANATION OF CHANGES (FY90 to FY91): No change.

CATEGORY: Studies Analyses and Evaluation
 SUBCATEGORY: Operations and Force Structure
 STUDY: C2 Technical Assistance

(\$000).

| | | | | |
|-------|-------|-------|-----------------------|-----------------------|
| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
| 500 | 310 | 308 | -190 | -2 |

MAJOR PURPOSE: The contractor would conduct human factors and equipment analyses during the prototype operation period of the Space Operation Center (SPOC) to identify potential improvements in SPOC operations and design in order to establish new requirements for the enhanced SPOC.

EXPLANATION OF CHANGES (FY89 TO FY90): Reduced because of Congressional CAAS funding cut and imposition of a limitation.

EXPLANATION OF CHANGES (FY90 TO FY91): Additional reduction in CAAS funding and limitation.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Operations and Force Structure

STUDY: Systems Engineering Support for Space Operations and Aerospace Defense.

| | <u>(\$000)</u> | | | |
|-------------|----------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 500 | 358 | 292 | - 142 | - 66 |

MAJOR PURPOSE: Provides for system engineering and integration; analysis, evaluation and planning for system modifications and evolution; and technical and engineering research and expertise to support the development of USSPACECOM technical policies, standards, procedures, and certification criteria which will guide the components in the development and acquisition of their ITW&A systems, technical documentation, and architectures.

EXPLANATION OF CHANGES (FY89 to FY90): Reduced because of Congressional CAAS funding cut and imposition of a limitation.

EXPLANATION OF CHANGES (FY90 to FY91): Additional reduction in CAAS funding and limitation.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Operations and Force Structure

STUDY: Space Surveillance Operational Support

| | <u>(\$000)</u> | | | |
|-------------|----------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 174 | 45 | 0 | - 129 | - 45 |

MAJOR PURPOSE: Provides technical expertise to evaluate, analyze, and identify sensor requirements for space surveillance systems and programs. Provides analyses to support tasking efficiency in the space surveillance network.

EXPLANATION OF CHANGES (FY89 to FY90): Congressionally directed CAAS limitation and funding cuts. Contractor will provide only limited support.

EXPLANATION OF CHANGES (FY90 to FY91): Additional directed CAAS limitation and funding cuts. Contract will be terminated. No space surveillance support will be available.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Operations and Force Structure

STUDY: Satellite Control Network Support (SCNS)

| | <u>(\$000)</u> | | | |
|-------------|----------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 7,025 | 5,733 | 4,725 | - 1,292 | - 1,008 |

MAJOR PURPOSE: The contract provides technical and management support to AFSPACECOM in conducting, evaluating and integrating the operations and maintenance planning aspects of modifications and additions to the Air Force Satellite Control Network (AFSCN). The AFSCN includes the Consolidated Space Operations Center (CSOC), the Consolidated Space Test Center (CSTC) at Onizuka AFB, eight worldwide remote tracking stations, and other control ground assets.

EXPLANATION OF CHANGES (FY89 to FY90): Congressionally directed CAAS limitation and funding cuts. Reduces technical and management support. Reduces planning for system transition and turnover and for overall network evolution. Deletes technical and management support to small launch vehicles and upperstage requirements development. Lack of timely analysis of operations concepts and continuity.

EXPLANATION OF CHANGES (FY90 to FY91): Additional CAAS limitation cuts. Further deferral of requirements, analyses and documentation. Eliminates flexibility in generating unplanned documents and analyses. Even less adequate documentation outlining reference and management requirements.

CATEGORY: Studies, Analyses and Evaluations

SUBCATEGORY: Science, Technology, Systems, and Equipment

STUDY: Global Positioning System (GPS) Planning

| <u>(\$000)</u> | | | | |
|----------------|-------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 1775 | 1275 | 1116 | - 500 | - 159 |

MAJOR PURPOSE: Provides continued planning, activation support, and coordination of the ongoing NAVSTAR GPS activities of the three major commands involved with GPS (AFSPACOM, AFSC, AFLC). Contractor technical support shall include resolution of technical and operational problems, preparation of system documentation, technical and planning meetings, and continual consideration of configuration, logistical, training, operational and human factors functions.

EXPLANATION OF CHANGES (FY89 to FY90): Congressional directed CAAS limitation and budget cut. Prevents analysis and assessment of planned improvements and upgrades to GPS, increased risk that planned improvements and upgrades will not meet operational requirements.

EXPLANATION OF CHANGES (FY90 to FY91): Additional CAAS limitation and funding reduction. Decreased post-turnover analysis.

CATEGORY: Studies, Analyses, and Evaluation
SUBCATEGORY: Science, Technology, Systems, and Equipment
STUDY: Milstar Space Systems Support

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 3,113 | 2,832 | 2,632 | - 281 |
| | | | - 200 |

MAJOR PURPOSE: Provides technical assistance and analytical support to HQ AFSPACECOM as Milstar Operational Manager in planning and executing Milstar program activities to field the Milstar system control segment.

EXPLANATION OF CHANGES (FY89 to FY90): Congressionally mandated cuts to the funding and limitation for CAAS forced the reduction. There will be a reduction in studies, analyses, and evaluations related to the activation of AFSPACECOM system control resources.

EXPLANATION OF CHANGES (FY90 to FY91): Congressionally-directed budget cut mandates a decreased level of support; simultaneously precludes planned ramp-up to support increasing system activation activities. Cuts also defer much needed logistics planning.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Science, Technology, Systems and Equipment

PROJECT: C3 Support

| | (\$000) | | |
|--|-------------|-------------|-----------------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | 2675 | 1687 | 1347 |
| | | | - 988 |
| | | | - 340 |
| | | | <u>+/- FY89</u> <u>TO FY90</u> |
| | | | <u>+/- FY90</u> <u>TO FY91</u> |

MAJOR PURPOSE: Contractor provides nonpersonal services to analyze, define, plan, and document the requirements for developing, acquiring, and installing new and upgraded programs supporting NORAD/USSPACECOM C3 architecture. Programs supported are: Granite Sentry, SCIS, CSSR, CCPDS-R, MCCS, BMEWS/PARCS, PAVE PAWS/COBRA DANE, Software IV&V, Special Access Programs, Training Planning, System Testing Support and other assigned programs.

EXPLANATION OF CHANGES (FY89 to FY90): Congressionally mandated cuts to the funding and limitation for CAAS forced the reduction. The contract is a consolidation of Command 3400 funds in PEs 12313 and 12310. The cut involves 14.49 manyears of effort.

EXPLANATION OF CHANGES (FY90 to FY91): Additional congressional reduction. If proportional cuts are applied to this contract the contract option for FY91 will not be executable.

CATEGORY: Studies, Analyses and Evaluation

SUBCATEGORY: Science Technology, Systems, and Equipment

STUDY: Space Defense C³ Analysis

(\$000)

| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| 996 | 714 | 613 | - 282 | - 101 |

MAJOR PURPOSE: Supports the SPADCCS, SPADOC, Advanced ASAT, Saipan Radar, Kaena Point Upgrade, Deep Space Surveillance Radar (DSSR), Space Surveillance and Tracking System (SSTS) and Space Based Radar (SBR) Programs. Provides the technical expertise in the multi-disciplines required to support the above programs. Ensures command requirements are specifically stated, cost/operational effectiveness tradeoffs conducted, and requirements are successfully implemented.

EXPLANATION OF CHANGES (FY89 to FY90): Congressionally directed funding cut. Eliminates technical support to AFSC in the SPADOC DT&E program to ensure the proposed implementation of SPADOC 4B requirements meet operational needs. Eliminates technical support for validating the SPADOC data base architecture for ops/security requirements.

EXPLANATION OF CHANGES (FY90 TO FY91): Additional directed funding cut. Direct impact to the Command's ability to conduct SPADOC 4B IOT&E and conduct turnover, resulting in a certain delay to SPADOC 4B IOC. Inability to perform adequate technical evaluations of SPADOC 4C technical proposals resulting in suboptimal SPADOC 4C system and delays in implementing SPADOC 4C.

CATEGORY: Studies, Analyses and Evaluations

SUBCATEGORY: Science, Technology, Systems, and Equipment

STUDY: Defense Meteorological Satellite Program (DMSP) Planning

| | (\$000) | | |
|-------------|-------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 250 | 250 | 250 | <u>+/- FY90 TO FY91</u> |
| | | 0 | 0 |

MAJOR PURPOSE: Provides continued planning, Turnover and Program Management Responsibility Transfer (PMRT) support and coordination of ongoing Defense Meteorological Satellite Program (DMSP) command and control activities. Contractor technical support shall include resolution of technical and operational problems, preparation of system documents, support of technical and planning meetings, support of logistics issues, and review of DMSP technical documents.

EXPLANATION OF CHANGES (FY89 to FY90): No change.

EXPLANATION OF CHANGES (FY90 to FY91): No change.

CATEGORY Studies, Analyses and Evaluation

SUBCATEGORY Science, Technology, Systems, and Equipment

STUDY Ballistic Missile Threats and Warning Analyses

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 100 | 0 | 0 | - 100 |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | 0 |

MAJOR PURPOSE: Provides technical analysis and evaluation of alternative approaches to the design of ITW/AA system elements and their effect on the operation of the integrated system, development and evaluation of algorithms and related logic, analyses and evaluations of program acquisition design and concepts, and maintenance of analytical tools and models used in analyses pertaining to plans, programs, and acquisitions.

EXPLANATION OF CHANGES (FY89 to FY90): The reduction is a result of the Congressionally mandated CAAS limitation and collateral funding cut.

EXPLANATION OF CHANGES (FY90 to FY91): No change.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Caribbean Basin Radar Network (CBRN)

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 1248 | 968 | +1248 |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | -280 |

MAJOR PURPOSE: Provides program office and Acquisition Engineering Support to the CBRN Program.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): A total of \$1.701K is required but due to bogey constraints could not be covered.

STUDY Reverse Engineering

(*)

| | | | | |
|-------------|-------------|-------------|---------------------|---------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | +/- FY89 TO FY90 | +/- FY90 TO FY91 |
| \$ 150 | \$ 0 | \$ 0 | -150 | 0 |

MAJOR PURPOSE: Contractor support provided engineering services so government parts can be measured and examined and engineering data developed. The data, thus acquired, enables the government to present the part for competitive procurement. These services are required to support breakout engineering as required by Public Law 98-525 and Air Force regulation.

EXPLANATION OF CHANGES (FY89 TO FY90): This is a one-time requirement in FY89. Reverse engineering was required for a seat stabilization rocket motor.

EXPLANATION OF CHANGES (FY90 TO FY91): No change occurs between fiscal years.

CATEGORY Management Support Services

SUBCATEGORY Specification Development

STUDY B-1B Technical Support Center

(#000)

| | | | | |
|-------------|-------------|-------------|-----------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| \$ 2,407 | \$ 266 | \$ 0 | TO FY90 | TO FY91 |
| | | | -2,141 | -266 |

MAJOR PURPOSE: Contractor support was required to design, develop, update, and maintain the various elements of the B-1B Technical Support Center at Oklahoma City Air Logistics Center, Oklahoma.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract support in FY90 focuses on recommendations and advice by the contractor as to how to provide logistics support on the B-1B. FY89 included support for implementing the Technical Support Center.

EXPLANATION OF CHANGES (FY90 TO FY91): Technical advice is not provided in FY91.

CATEGORY Management Support Services

SUBCATEGORY Logistic Support Services

STUDY Software Integration and Training

(#000)

| | | | | |
|-------|------|------|----------|----------|
| FY89 | FY90 | FY91 | +/- FY89 | +/- FY90 |
| \$ 48 | \$ 0 | \$ 0 | TO FY90 | TO FY91 |
| | | | -48 | 0 |

MAJOR PURPOSE: Odgen Air Logistics Center, Utah had an engineering local area network established for the integration of operational software. Contractor support provided system training on the peculiar software products contained in the operational system.

EXPLANATION OF CHANGES (FY89 TO FY90): This is a one-time requirement in FY89.

EXPLANATION OF CHANGES (FY90 TO FY91): No change occurs between fiscal years.

CATEGORY Management Support Services

SUBCATEGORY Logistic Support Services

STUDY Reliability and Maintainability Action Plan

(#000)

| | | | | |
|-------------|-------------|-------------|-----------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| \$ 0 | \$ 200 | \$ 0 | TO FY90 | TO FY91 |
| | | | +200 | -200 |

MAJOR PURPOSE: Contractor support provides evaluation of current reliability and maintainability actions plans for Electronic Warfare systems at Warner Robins Air Logistics Center, Georgia. The contractor evaluates alternative support concepts, architectures, maintenance concepts, acquisition strategies, software configuration management, and depot planning.

EXPLANATION OF CHANGES (FY89 TO FY90): This is a one-time requirement in FY90.

EXPLANATION OF CHANGES (FY90 TO FY91): This is a one-time requirement in FY90.

SUBCATEGORY Technical Data Collection

STUDY Maintain and Upgrade Military Standards and Specifications Library

(* * *)

| | | | | | |
|--|-------|-------|------|---------------------|---------------------|
| | FY89 | FY90 | FY91 | +/- FY89 TO FY90 | +/- FY90 TO FY91 |
| | \$ 10 | \$ 10 | \$ 0 | | -10 |

MAJOR PURPOSE: Contractor support is required to maintain and upgrade the military standards and military specification library in place at British Aerospace (BAE), Bristol, England. Updated military standards and military specifications are necessary to maintain a current library which enables the contractor to accomplish expedient repair and modification of aircraft. BAE accomplishes programmed depot maintenance of F-111 E/F aircraft located in the United Kingdom.

EXPLANATION OF CHANGES (FY89 TO FY90): No changes occur between fiscal years.

EXPLANATION OF CHANGES (FY90 TO FY91): No financing is provided in FY91 to continue annual maintenance and upgrade of the military standards and military specifications. Contractor would request updated information from Sacramento Air Logistics Center, California resulting in delayed support on the F-111 E/F aircraft.

CATEGORY: ENGINEERING TECHNICAL SERVICES

SUBCATEGORY: CONTRACT PLANT SERVICES

STUDY: CONTRACT TRAINING

(\$000)

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|--------|-------|-------|-----------------------|-----------------------|
| 10.210 | 0 | 0 | -10.210 | 0 |

MAJOR PURPOSE: To provide contract training in support of initial training on new weapon systems, equipment, and components.

EXPLANATION OF CHANGES (FY89 TO FY90): All contract training in support of technical training courses is being deleted from the CAAS reporting procedures IAW Category D Engineering and Technical Services (ETS). Section A, paragraph 5g. Attachment 4. to AFR 800-44. Acquisition Management Contracted Advisory and Assistance Services (CAAS).

EXPLANATION OF CHANGES (FY90 TO FY91): No change

CATEGORY Engineering and Technical Services
SUBCATEGORY Contract Field Services
STUDY Defense Satellite Communication System (DSCS)

| | | | | |
|-------------|-------------|----------------|-----------------------------|-----------------------------|
| | | <u>(\$000)</u> | | |
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 2215 | 0 | 0 | -2215 | 0 |

MAJOR PURPOSE: Aerospace Corp provides General Systems Engineering and Inspection Support to the technical management of the DSCS program.

EXPLANATION OF CHANGES (FY89 TO FY90): Coded erroneously in FY89, FFRDC.

EXPLANATION OF CHANGES (FY90 TO FY91): FFRDC. Detail included in summary.

CATEGORY Engineering Technical Services

SUBCATEGORY Contract Field Services

STUDY SATCOM FSC-78 and GSC-39

(\$000)

| | | | | |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| \$ 230.5 | \$ 110 | \$ 110 | \$ -120.5 | \$ 0 |

MAJOR PURPOSE: Contract Engineering Technical Services (CETS) for Satellite Earth Terminals to provide training, advice and on-site maintenance. The objective is to increase the technical skills and abilities of Air Force personnel to a level of self-sufficiency.

EXPLANATION OF CHANGES (FY89 to FY90): CETS reduction due to budget cuts.

EXPLANATION OF CHANGES (FY90 to FY91): None.

CATEGORY Engineering Technical Services

SUBCATEGORY Contract Field Services

STUDY Red Switch and TAS

| | | (\$000) | | | |
|------------|-------------|-------------|-------------|-----------------------------|-----------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| Red Switch | \$ 140 | \$ 41 | \$ 0 | \$ - 99 | \$ 0 |
| TAS | 140 | 145 | 145 | + 5 | 0 |

MAJOR PURPOSE: Contract Engineering Technical Services (CETS) for Red Switch and TAS to provide training, advice and on-site maintenance. The objective is to increase the technical skills and abilities of Air force personnel to a level of self-sufficiency.

EXPLANATION OF CHANGES (FY89 to FY90): Red Switch CETS reduction due to budget cuts.
TAS price increase.

EXPLANATION OF CHANGES (FY90 to FY91): Red Switch CETS terminated.

CATEGORY Engineering Technical Services

SUBCATEGORY Contract Field Services

STUDY Radar Systems: TPX-42/PIDP and GPN-20

| | | (\$000) | | |
|--|-------------|-----------|-----------------|--|
| | <u>FY89</u> | | <u>FY90</u> | |
| | \$ 290 | | \$ 100 | |
| | | | <u>FY91</u> | |
| | | | \$ 60 | |
| | | | <u>+/- FY89</u> | |
| | | | <u>TO FY90</u> | |
| | | | \$ -190 | |
| | | | <u>+/- FY90</u> | |
| | | | <u>TO FY91</u> | |
| | | | \$ - 40 | |

MAJOR PURPOSE: Contract Engineering Technical Services (CETS) for radar systems to provide training, advice and on-site maintenance. The objective is to increase the technical skills and abilities of Aire Force personnel to a level of self-sufficiency.

EXPLANATION OF CHANGES (FY89 to FY90): CETS reduction due to budget cuts.

EXPLANATION OF CHANGES (FY90 to FY91): CETS reduction due to budget cuts.

CATEGORY Engineering Technical Services

SUBCATEGORY Contract Field Services

STUDY GPN-22 and TPN-19 radars

| | | | | | (\$000) |
|---------|--------|--|--------|---------------------|---------------------|
| FY89 | FY90 | | FY91 | +/- FY89 TO FY90 | +/- FY90 TO FY91 |
| \$1,005 | \$ 899 | | \$ 703 | \$ -106 | \$ -196 |

MAJOR PURPOSE: Contract Engineering Technical Services (CETS) for approach radars to provide training, advice and on-site maintenance. The objective is to increase the technical skills and abilities of Air Force personnel to a level of self-sufficiency.

EXPLANATION OF CHANGES (FY89 to FY90): CETS reduction due to budget cuts.

EXPLANATION OF CHANGES (FY90 to FY91): CETS reduction due to budget cuts.

CATEGORY Engineering Technical Services

SUBCATEGORY Contract Field Services

STUDY Vortac Modernization

| | | (\$000) | | |
|--|-------------|-------------|-------------|-----------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| | \$ 840 | \$ 748 | \$ 748 | |
| | | | | <u>+/- FY90 TO FY91</u> |
| | | | | \$ 0 |

MAJOR PURPOSE: Contract Engineering Technical Services (CETS) for Vortac Modernization to provide training, advice and on-site maintenance. The objective is to increase the technical skills and abilities of Air Force personnel to a level of self-sufficiency.

EXPLANATION OF CHANGES (FY89 to FY90): CETS reduction due to budget cuts.

EXPLANATION OF CHANGES (FY90 to FY91):

CATEGORY Engineering and Technical Services
 SUBCATEGORY Contract Field Services
 STUDY ALCM/ACM

| | | <u>(\$000)</u> | | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
|-------------|-------------|----------------|--------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | | | |
| 661.6 | 478.4 | 405.7 | -183.2 | - 72.7 | |

MAJOR PURPOSE: Provides a SAC/contractor interface to resolve problems concerning technical order content/shortfalls test equipment operation and troubleshooting, support equipment, site activation and rebasing tasks and supply difficulties.

EXPLANATION OF CHANGES (FY89 to FY90): Reduction of twenty-five percent of advanced cruise missile General Dynamics contract.

EXPLANATION OF CHANGES (FY90 to FY91): Additional twenty percent reduction in advanced cruise missile contract.

CATEGORY Engineering and Technical Services
 SUBCATEGORY Contract Field Services
 STUDY B-1B

| | | <u>(\$000)</u> | | |
|--|-------------|----------------|-------------|-----------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| | 8,377.5 | 8,287.4 | 7,020.2 | - 90.1 |
| | | | | <u>+/- FY90 TO FY91</u> |
| | | | | -1,267.2 |

MAJOR PURPOSE: Contract engineering support for air vehicle systems, offensive and defensive avionics systems, air vehicle system, central integrated test system, intermediate avionic test equipment, engines, intermediate automatic test equipment and the secondary power system.

EXPLANATION OF CHANGES (FY89 to FY90): Reduction represents small man month reductions in contracts, however, the reduction from our initial request equates to over \$3 million.

EXPLANATION OF CHANGES (FY90 to FY91): Reduction from 132 man month decrease on the aircraft systems and defensive avionics systems contracts.

CATEGORY Engineering and Technical Services
 SUBCATEGORY Contract Field Services
 STUDY Peacekeeper

| | <u>(\$000)</u> | | | |
|-------------|------------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 118.1 | 0 | 0 | -118.1 | 0 |

MAJOR PURPOSE: Initial contract services from Boeing.
 EXPLANATION OF CHANGES (FY89 to FY90): Contract was cancelled.
 EXPLANATION OF CHANGES (FY90 to FY91): N/A

CATEGORY Engineering and Technical Services
 SUBCATEGORY Contract Field Services
 STUDY Support/Training

| | | | | |
|-------------|-------------|----------------|-----------------------------|-----------------------------|
| | | <u>(\$000)</u> | | |
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 422.0 | 493.2 | 418.4 | +71.2 | -74.8 |

MAJOR PURPOSE: Contracts for electronic countermeasure simulator, multiple threat emitter system, threat reaction analysis indicator system, and radar bomb scoring system.

EXPLANATION OF CHANGES (FY89 to FY90): Increase is due to one quarter of expenses for initial deployment of threat emitter, ground jammer, and radar bomb scoring.

EXPLANATION OF CHANGES (FY90 to FY91): Reductions to FY89 level of effort.

CATEGORY Engineering and Technical Services
 SUBCATEGORY Contract Field Services
 STUDY FB-111

| | | | | |
|--|-------------|----------------|-------------|-----------------------------------|
| | | <u>(\$000)</u> | | |
| | | | | <u>+/- FY90</u> <u>TO FY91</u> |
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> <u>TO FY90</u> |
| | 464.3 | 379.8 | 216.7 | -84.5 |
| | | | | -163.1 |

MAJOR PURPOSE: Contracts minimize the impact of design/engineering problems of the weapons system/equipment.

EXPLANATION OF CHANGES (FY89 to FY90): Reduction in the General Dynamics design/engineering contract and Westinghouse Avionics Intermediate Shop Replacement Contract.

EXPLANATION OF CHANGES (FY90 to FY91): Additional reductions to the General Dynamics and Westinghouse man months.

CATEGORY Engineering and Technical Services

SUBCATEGORY Contract Field Services

STUDY B-52

| | | <u>(\$000)</u> | |
|-------------|-------------|----------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 1158.6 | 1026.2 | 870.5 | -132.4 |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | -155.7 |

MAJOR PURPOSE: The use of Contract Field Services (CFS) provides the link and interface between the weapon systems developer/manufacturer and the USAF user. These technical services are essential for countermeasures test, electronic countermeasures, electronic test set, electronic warfare operational test system, electronic warfare system, defensive avionics, and harpoon system.

EXPLANATION OF CHANGES (FY89 to FY90): Decline is due to cancellation/reduction of electronic countermeasures contracts.

EXPLANATION OF CHANGES (FY90 to FY91): Reduction of countermeasure contracts.

CATEGORY Engineering and Technical Services
 SUBCATEGORY Contract Field Services
 STUDY Minuteman

| | | | | |
|-------------|-------------|----------------|-----------------------------|-----------------------------|
| | | <u>(\$000)</u> | | |
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 278.9 | 250.6 | 212.5 | - 28.3 | - 38.1 |

MAJOR PURPOSE: The advanced technical information and planning factors available to the SAC staff through Boeing result in more accurate and complete advanced planning and resolution of problem areas prior to the start of modification programs.

EXPLANATION OF CHANGES (FY89 to FY90): Programmed ten percent reduction in necessary services.

EXPLANATION OF CHANGES (FY90 to FY91): Programmed reduction in necessary services.

CATEGORY: Engineering and Technical Services

SUBCATEGORY: Contractor Field Services

STUDY: 27418 OA-10

(\$000)

| <u>FY 89</u> | <u>FY 90</u> | <u>FY 91</u> | <u>+/- FY 89 TO FY 90</u> | <u>+/- FY 90 TO FY 91</u> |
|--------------|--------------|--------------|-------------------------------|-------------------------------|
| 0 | 92 | 0 | +92 | -92 |

MAJOR PURPOSE: Provide technical expertise and training on operation and maintenance of air frame and air frame systems as related to OA-10 aircraft.

EXPLANATION OF CHANGES (FY 89 TO FY 90): FY 90 is first year OA-10s have been activated in PACAF.

EXPLANATION OF CHANGES (FY 90 TO FY 91): Replaced CETS with AFETS.

CATEGORY: Engineering and Technical Services

SUBCATEGORY: Contractor Field Services

STUDY: 27412 Tactical Air Control System

(\$000)

| <u>FY 89</u> | <u>FY 90</u> | <u>FY 91</u> | <u>+/- FY 89 TO FY 90</u> | <u>+/- FY 90 TO FY 91</u> |
|--------------|--------------|--------------|-------------------------------|-------------------------------|
| 35 | 0 | 0 | -35 | 0 |

MAJOR PURPOSE: Provide technical expertise and training on operation and maintenance of the Tactical Air Control (TYC-10) system.

EXPLANATION OF CHANGES (FY 89 TO FY 90): Replaced CETS with AFETS.

EXPLANATION OF CHANGES (FY 90 TO FY 91):

CATEGORY: Engineering and Technical Services

SUBCATEGORY: Contractor Field Services

STUDY: 27213F RF-4C

(\$000)

| <u>FY 89</u> | <u>FY 90</u> | <u>FY 91</u> | <u>+/- FY 89 TO FY 90</u> | <u>+/- FY 90 TO FY 91</u> |
|--------------|--------------|--------------|-------------------------------|-------------------------------|
| 491 | 97 | 0 | -394 | -97 |

MAJOR PURPOSE: Provide technical expertise and training on operation and maintenance of RF-4C TYQ 11/13 Systems.

EXPLANATION OF CHANGES (FY 89 TO FY 90): CETS only required for 4 man months as replaced by AFETS.

EXPLANATION OF CHANGES (FY 90 TO FY 91): Replaced CETS with AFETS.

CATEGORY: Engineering and Technical Services

SUBCATEGORY: Contractor Field Services

STUDY: 27136F F-4G

(\$000)

| <u>FY 89</u> | <u>FY 90</u> | <u>FY 91</u> | <u>+/- FY 89 TO FY 90</u> | <u>+/- FY 90 TO FY 91</u> |
|--------------|--------------|--------------|-------------------------------|-------------------------------|
| 128 | 78 | 0 | -50 | -78 |

F-4G APR-38

McDonnell Douglas

MAJOR PURPOSE: Provide technical expertise and training on operation and maintenance of F-4G APR-38 System.

EXPLANATION OF CHANGES (FY 89 TO FY 90): CETS required for 1 quarter of FY 90 as replaced by AFETS.

EXPLANATION OF CHANGES (FY 90 TO FY 91): Replaced CETS with AFETS.

CATEGORY: Engineering and Technical Services

SUBCATEGORY: Contractor Field Services

STUDY: 27133F (F-16)

(\$000)

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|--------------------|-------|-------------------|-----------------------|-----------------------|
| 2,159 | 1,522 | 1,754 | -637 | +232 |
| APG | | General Dynamics | | |
| Fire Control | | General Dynamics | | |
| Flight Control | | General Dynamics | | |
| Weapons | | General Dynamics | | |
| Test Station (AIS) | | General Dynamics | | |
| LANTIRN | | Martin Marietta | | |
| F-110 Engine | | General Electric | | |
| F-100-220 Engine | | Pratt and Whitney | | |

MAJOR PURPOSE: Provide technical expertise and training in all phases of operation and maintenance associated with the F-16 aircraft. LANTIRN and F-100-220 engine are new systems to the command.

EXPLANATION OF CHANGES (FY 89 TO FY 90): Replaced CETS with AFETS.

EXPLANATION OF CHANGES (FY 90 TO FY 91): Bringing two new systems on board and need contractor coverage for first year.

CATEGORY: Engineering and Technical Services

SUBCATEGORY: Contractor Field Services

STUDY: 27131 (A-10)

(\$000)

| <u>FY 89</u> | <u>FY 90</u> | <u>FY 91</u> | <u>+/- FY 89 TO FY 90</u> | <u>+/- FY 90 TO FY 91</u> |
|--------------|--------------|--------------|-------------------------------|-------------------------------|
| 377 | 0 | 0 | -377 | 0 |

MAJOR PURPOSE: Provide technical expertise and training on maintenance and operation of the A-10 weapons system.

EXPLANATION OF CHANGES (FY 89 TO FY 90): Termination of CETS contract, A-10S deactivated in FY 89.

EXPLANATION OF CHANGES (FY 90 TO FY 91): NA

CATEGORY: Engineering and Technical Services

SUBCATEGORY: Contractor Field Services

STUDY: 27130F (F-15)

(\$000)

| <u>FY 89</u> | <u>FY 90</u> | <u>FY 91</u> | <u>+/- FY 89 TO FY 90</u> | <u>+/- FY 90 TO FY 91</u> |
|--------------|--------------|--------------|-------------------------------|-------------------------------|
| 542 | 150 | 0 | -392 | -150 |

F-15 APG
F-15 F-100 Engine
McDonnell Douglas Corp
Pratt and Whitney Corp

MAJOR PURPOSE: Provide technical expertise and training on operations and mai. tenance of F-15 air frame and air frame equipment and F-100 engine.

EXPLANATION OF CHANGES (FY 89 TO FY 90): Replaced CETS with AFETS.

EXPLANATION OF CHANGES (FY 90 TO FY 91): Replaced CETS with AFETS.

CATEGORY: Engineering and Technical Services

SUBCATEGORY: Contractor Field Services

STUDY: 27128F (F-4E)

(\$000)

| <u>FY 89</u> | <u>FY 90</u> | <u>FY 91</u> | <u>+/- FY 89 TO FY 90</u> | <u>+/- FY 90 TO FY 91</u> |
|--------------|--------------|--------------|-------------------------------|-------------------------------|
| 478 | 92 | 0 | -386 | -92 |

F-4E Weapons McDonnell Douglas Corp

MAJOR PURPOSE: Provide technical expertise and training on maintenance and operation of the F-4E weapons system.

EXPLANATION OF CHANGES (FY 89 TO FY 90): Replaced CETS with AFETS.

EXPLANATION OF CHANGES (FY 90 TO FY 91): Replaced CETS with AFETS.

CATEGORY: Engineering Technical Services

SUBCATEGORY: Contract Field Service

STUDY: F-15/16 PEC 27597 Weapon System Training

| | | | (\$000) | | |
|--|------|------|---------|----------------------|---------------------|
| | FY89 | FY90 | FY91 | +/- FY89 TO FY 90 | +/- FY90 TO FY91 |
| | 824 | 643 | 130 | -181 | -513 |

MAJOR PURPOSE: Contractor field service is needed to train Air Force technicians on the aspect of new equipment and modifications during initial introduction of the equipment in the inventory. Contractors are used to conduct classroom training for all DOD personnel assigned to the respective units. When the unit becomes self-sufficient, the contract is terminated.

EXPLANATION OF CHANGES (FY89 TO FY90):

Mandatory reduction in funds for FY90.

EXPLANATION OF CHANGES (FY90 TO FY91):

The operating units have developed in-house self-sufficiency through the use of Air Force Engineering Technical Service DOD civilian personnel. Training provided early in the conversion permitted the unit to progress to a fast reduction in Contractor Field Service.

CATEGORY: Engineering Technical Services
SUBCATEGORY: Contract Field Service
STUDY: Ground Communications System 27412

| (\$000) | | | |
|---------|------|------|----------------------|
| FY89 | FY90 | FY91 | +/- FY89 TO FY 90 |
| 105 | 110 | 140 | +/- FY90 TO FY91 |
| | | | 5 |
| | | | 30 |

MAJOR PURPOSE: Contractor field service is needed to train Air Force technicians on the aspect of new equipment and modifications during initial introduction of the equipment in the inventory. Contractors are used to conduct classroom training for all DOD personnel assigned to the respective units. When the unit becomes self-sufficient, the contract is terminated.

EXPLANATION OF CHANGES (FY89 TO FY90):

Increase attributed to higher contractor costs for required level of weapons system support. Total requirement in FY90 reduced to meet congressional limitation on Contract advisory assistance services.

EXPLANATION OF CHANGES (FY90 TO FY91):

Allocation of funding expected to increase from FY90 levels to support the minimum requirement of Tactical Air Command's Engineering Technical Services. Continued conversion and upgrade of existing weapon system requires the projected funding to support the mission.

CATEGORY: Engineering Technical Services

SUBCATEGORY: Contract Field Service

STUDY: EF-111 Weapons System P&C 27252

| | | (\$000) | | |
|--|------|-----------|------|---------------------|
| | FY89 | FY90 | FY91 | +/- FY89 TO FY90 |
| | 115 | 0 | 0 | +/- FY90 TO FY91 |
| | | | | -115 |
| | | | | 0 |

MAJOR PURPOSE: Contractor field service is needed to train Air Force technicians on the aspect of new equipment and modifications during initial introduction of the equipment in the inventory. Contractors are used to conduct classroom training for all DOD personnel assigned to the respective units. When the unit becomes self-sufficient, the contract is terminated.

EXPLANATION OF CHANGES (FY89 to FY90):

The decrease is attributed to self sufficiency through the use of Air Force Engineering Technical Services DOD civilian personnel.

EXPLANATION OF CHANGES (FY90 to FY91): None.

CATEGORY: Engineering Technical Services
 SUBCATEGORY: Contract Field Service
 STUDY: F-15E PEC 27134 Weapon System

| | | | (\$000) | | |
|--|------|------|---------|----------------------|---------------------|
| | FY89 | FY90 | FY91 | +/- FY89 TO FY 90 | +/- FY90 TO FY91 |
| | 343 | 482 | 174 | 139 | -308 |

MAJOR PURPOSE: Contractor field service is needed to train Air Force technicians on the aspect of new equipment and modifications during initial introduction of the equipment to the inventory. Contractors are used to conduct classroom training for all DOD personnel assigned to the respective units. When unit self-sufficiency is developed, the contract is terminated.

EXPLANATION OF CHANGES (FY89 TO FY90: The increase in contractor cost negotiated in the FY90 contract is the only change.

EXPLANATION OF CHANGES (FY90 TO FY91): The units have developed in-house self-sufficiency through the use of trained DOD civilian Air Force Engineering Technical Service personnel and adequate training for these personnel during the initial beddown of the weapon system.

CATEGORY: Engineering Technical Services

SUBCATEGORY: Contract Field Service

STUDY: F-16 PEC 27133 Weapon System

| | | | (\$000) | | |
|--|------|------|---------|----------------------|---------------------|
| | FY89 | FY90 | FY91 | +/- FY89 TO FY 90 | +/- FY90 TO FY91 |
| | 483 | 417 | 897 | -66 | 480 |

MAJOR PURPOSE: Contractor field service is needed to train Air Force technicians on the aspect of new equipment and modifications during initial introduction of the equipment in the inventory. Contractors are used to conduct classroom training for all DOD personnel assigned to the respective units. When the unit becomes self-sufficient, the contract is terminated.

EXPLANATION OF CHANGES (FY89 TO FY90):

Mandatory reduction in funds for FY90.

EXPLANATION OF CHANGES (FY90 TO FY91):

Allocation of funding expected to increase from FY90 levels to support the minimum requirement of Tactical Air Command's Engineering Technical Service. Continued conversion and upgrade of existing weapon system requires the projected funding to support this mission.

CATEGORY: Engineering Technical Services

SUBCATEGORY: Contract Field Services

STUDY: F-15 FBC 27130 Weapon System

| | | (\$000) | | |
|--|------|-----------|------|----------------------|
| | FY89 | FY90 | FY91 | +/- FY89 TO FY 90 |
| | 965 | 366 | 512 | -599 |
| | | | | +/- FY90 TO FY91 |
| | | | | 146 |

MAJOR PURPOSE: Contractor field service is needed to train Air Force technicians on the aspect of new equipment and modifications during initial introduction of the equipment in the inventory. Contractors are used to conduct classroom training for all DOD personnel assigned to the respective units. When the unit becomes self-sufficient, the contract is terminated.

EXPLANATION OF CHANGES (FY89 to FY90):

Mandatory reduction in funds for FY90.

EXPLANATION OF CHANGES (FY90 to FY91):

Allocation of funding expected to increase from FY90 levels to support the minimum requirements of Tactical Air Command's Engineering Technical Services. Continued conversion and upgrade of existing weapon system requires the projected funding to support the mission.

CATEGORY: Engineering Technical Services

SUBCATEGORY: Contract Field Service

STUDY: F-15/16 FBC 12897 Weapon System Training Missiles

| | | | (\$000) | | |
|--|------|------|---------|----------------------|---------------------|
| | FY89 | FY90 | FY91 | +/- FY89 TO FY 90 | +/- FY90 TO FY91 |
| | 115 | 110 | 110 | -5 | 0 |

MAJOR PURPOSE: Contractor field service is needed to train Air Force technicians on the aspect of new equipment and modifications during initial introduction of the equipment in the inventory. Contractors are used to conduct classroom training for all DOD personnel assigned to the respective units. When the unit becomes self-sufficient, the contract is terminated.

EXPLANATION OF CHANGES (FY89 TO FY90):

Mandatory reduction in funds for FY90.

EXPLANATION OF CHANGES (FY90 TO FY91): None

CATEGORY: Engineering Technical Services

SUBCATEGORY: Contract Field Service

STUDY: JSS Air Defense System PEC 12411

| | | | (\$000) | | |
|--|------|------|-----------|---------------------|---------------------|
| | FY89 | FY90 | FY91 | +/- FY89 TO FY90 | +/- FY90 TO FY91 |
| | 117 | 58 | 0 | -59 | -58 |

MAJOR PURPOSE: Contractor field service is needed to train Air Force technicians on the aspect of new equipment and modifications during initial introduction of the equipment in the inventory. Contractors are used to conduct classroom training for all DOD personnel assigned to the respective units. When the unit becomes self-sufficient, the contract is terminated.

EXPLANATION OF CHANGES (FY89 to FY90):

Mandatory reduction in funds for FY90:

EXPLANATION OF CHANGES (FY90 to FY91): The unit has developed self sufficiency through the use of Air Force Engineering Technical Services DOD civilian personnel.

CATEGORY: WEAPON SYSTEMS SUPPORT: Engineering and Technical Support

SUBCATEGORY: Contract Field Services (EEIC 584JG)

STUDY: . CETS for Various USAF Weapon Systems

(\$000)

| | FY89 | FY90 | FY91 | +/- FY89 TO FY90 | +/- FY90 TO FY91 |
|---------|---------|---------|---------|---------------------|---------------------|
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 2.0000 | 2.0000 | 2.0000 | 2.0000 | 0.0000 | 0.0000 |
| 3.0000 | 3.0000 | 3.0000 | 3.0000 | 0.0000 | 0.0000 |
| 4.0000 | 4.0000 | 4.0000 | 4.0000 | 0.0000 | 0.0000 |
| 5.0000 | 5.0000 | 5.0000 | 5.0000 | 0.0000 | 0.0000 |
| 6.0000 | 6.0000 | 6.0000 | 6.0000 | 0.0000 | 0.0000 |
| 7.0000 | 7.0000 | 7.0000 | 7.0000 | 0.0000 | 0.0000 |
| 8.0000 | 8.0000 | 8.0000 | 8.0000 | 0.0000 | 0.0000 |
| 9.0000 | 9.0000 | 9.0000 | 9.0000 | 0.0000 | 0.0000 |
| 10.0000 | 10.0000 | 10.0000 | 10.0000 | 0.0000 | 0.0000 |
| 11.0000 | 11.0000 | 11.0000 | 11.0000 | 0.0000 | 0.0000 |
| 12.0000 | 12.0000 | 12.0000 | 12.0000 | 0.0000 | 0.0000 |
| 13.0000 | 13.0000 | 13.0000 | 13.0000 | 0.0000 | 0.0000 |
| 14.0000 | 14.0000 | 14.0000 | 14.0000 | 0.0000 | 0.0000 |
| 15.0000 | 15.0000 | 15.0000 | 15.0000 | 0.0000 | 0.0000 |
| 16.0000 | 16.0000 | 16.0000 | 16.0000 | 0.0000 | 0.0000 |
| 17.0000 | 17.0000 | 17.0000 | 17.0000 | 0.0000 | 0.0000 |
| 18.0000 | 18.0000 | 18.0000 | 18.0000 | 0.0000 | 0.0000 |
| 19.0000 | 19.0000 | 19.0000 | 19.0000 | 0.0000 | 0.0000 |
| 20.0000 | 20.0000 | 20.0000 | 20.0000 | 0.0000 | 0.0000 |
| 21.0000 | 21.0000 | 21.0000 | 21.0000 | 0.0000 | 0.0000 |
| 22.0000 | 22.0000 | 22.0000 | 22.0000 | 0.0000 | 0.0000 |
| 23.0000 | 23.0000 | 23.0000 | 23.0000 | 0.0000 | 0.0000 |
| 24.0000 | 24.0000 | 24.0000 | 24.0000 | 0.0000 | 0.0000 |
| 25.0000 | 25.0000 | 25.0000 | 25.0000 | 0.0000 | 0.0000 |
| 26.0000 | 26.0000 | 26.0000 | 26.0000 | 0.0000 | 0.0000 |
| 27.0000 | 27.0000 | 27.0000 | 27.0000 | 0.0000 | 0.0000 |
| 28.0000 | 28.0000 | 28.0000 | 28.0000 | 0.0000 | 0.0000 |
| 29.0000 | 29.0000 | 29.0000 | 29.0000 | 0.0000 | 0.0000 |
| 30.0000 | 30.0000 | 30.0000 | 30.0000 | 0.0000 | 0.0000 |
| 31.0000 | 31.0000 | 31.0000 | 31.0000 | 0.0000 | 0.0000 |
| 32.0000 | 32.0000 | 32.0000 | 32.0000 | 0.0000 | 0.0000 |
| 33.0000 | 33.0000 | 33.0000 | 33.0000 | 0.0000 | 0.0000 |
| 34.0000 | 34.0000 | 34.0000 | 34.0000 | 0.0000 | 0.0000 |
| 35.0000 | 35.0000 | 35.0000 | 35.0000 | 0.0000 | 0.0000 |
| 36.0000 | 36.0000 | 36.0000 | 36.0000 | 0.0000 | 0.0000 |
| 37.0000 | 37.0000 | 37.0000 | 37.0000 | 0.0000 | 0.0000 |
| 38.0000 | 38.0000 | 38.0000 | 38.0000 | 0.0000 | 0.0000 |
| 39.0000 | 39.0000 | 39.0000 | 39.0000 | 0.0000 | 0.0000 |
| 40.0000 | 40.0000 | 40.0000 | 40.0000 | 0.0000 | 0.0000 |
| 41.0000 | 41.0000 | 41.0000 | 41.0000 | 0.0000 | 0.0000 |
| 42.0000 | 42.0000 | 42.0000 | 42.0000 | 0.0000 | 0.0000 |
| 43.0000 | 43.0000 | 43.0000 | 43.0000 | 0.0000 | 0.0000 |
| 44.0000 | 44.0000 | 44.0000 | 44.0000 | 0.0000 | 0.0000 |
| 45.0000 | 45.0000 | 45.0000 | 45.0000 | 0.0000 | 0.0000 |
| 46.0000 | 46.0000 | 46.0000 | 46.0000 | 0.0000 | 0.0000 |
| 47.0000 | 47.0000 | 47.0000 | 47.0000 | 0.0000 | 0.0000 |
| 48.0000 | 48.0000 | 48.0000 | 48.0000 | 0.0000 | 0.0000 |
| 49.0000 | 49.0000 | 49.0000 | 49.0000 | 0.0000</ | |

| | | | | |
|-------|-------|-------|-------|---------|
| 4,815 | 3,826 | 2,292 | - 989 | - 1,534 |
|-------|-------|-------|-------|---------|

MAJOR PURPOSE: Provides Contract Engineering and Technical Services (CETS) maintenance support for the various weapon systems in USAFE.

EXPLANATION OF CHANGES (FY89 to FY90): In FY90, seven (7) contractor positions were converted to GS civilian positions under the Tactical Air Forces' (TAF) Air Force Engineering and Technical Services (AFETS) program.

EXPLANATION OF CHANGES (FY90 to FY91): The total FY91 requirement for CETS support is \$2,553K. This is \$261K short of the total CAAS limitation authorized for USAFE in FY91. Even with this additional CAAS' limitation, the CETS requirement decreases in FY91 as a result of continued conversion of CETS positions to AFETS positions and the total elimination of the GLCM weapon system in FY91.

CATEGORY: ENGINEERING TECHNICAL SERVICES

SUBCATEGORY: CONTRACT FIELD SERVICES

STUDY: CETS TRAINING

(\$000)

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|-------|-------|-------|-----------------------|-----------------------|
| 345 | 358 | 909 | +13 | +551 |

MAJOR PURPOSE: Contract Engineering and Technical Services (CETS) in support of F-15, F-16, F-111, B-1, and LANTIRN. Man-months are contracted for field service representatives in support of technical training for USAF maintenance personnel which provide for trouble shooting, fault detection, isolation and correction of malfunction.

EXPLANATION OF CHANGES (FY89 TO FY90): Increase due to inflation.

EXPLANATION OF CHANGES (FY90 TO FY91): Increase is for additional personnel from Westinghouse Corporation in support of the F-111, Martin Marietta in support of LANTIRN, and Rockwell International in support of B-1.

CATEGORY: Engineering and Technical Services

SUBCATEGORY: Contract Field Services

STUDY: EXIDE CETS

| | <u>(\$000)</u> | | | |
|-------------|----------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 69 | 80 | 0 | + 11 | - 80 |

MAJOR PURPOSE: Maintains the batteries and uninterruptible power system in Cheyenne Mountain. Provides liaison between the EXIDE Corporation and AF Space Command. Trains the in-house work force.

EXPLANATION OF CHANGES (FY89 to FY90): Price increase for the same level of service as provided in FY89.

EXPLANATION OF CHANGES (FY90 to FY91): Congressionally imposed CAAS limitations have decrease Command funding to a level that can no longer support this contract.

CATEGORY Engineering Technical Services
SUBCATEGORY Contract Field Services
STUDY Spacetrack CETS

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 85 | 0 | 0 | <u>+/- FY90 TO FY91</u> |
| | | | 0 |

MAJOR PURPOSE: Provided instruction, information, and advice in the operation, maintenance, engineering, installation and/or repair of Spacetrack equipment on the AN/FPS 79, AN/FPS 17, AN/GPS 10, AN/GYK 18, VAX 11/750 weapon systems. The work was performed for AFSPACECOM at various domestic and overseas locations.

EXPLANATION OF CHANGES (FY89 to FY90): FY 89 was the final year of requirement.

EXPLANATION OF CHANGES (FY90 to FY91): No change.

CATEGORY Engineering Technical Services

SUBCATEGORY Contract Field Services

STUDY Global Positioning System (GPS) CETS

| | (\$000) | | | | |
|-------------|-------------|-------------|-----------------------------|-----------------------------|--|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> | |
| 97 | 0 | 0 | - 97 | 0 | |

MAJOR PURPOSE: Provided support for maintenance and system upgrade efforts. Provided overall training management, instruction, information, and advice in the operation, maintenance, engineering, installation/repair of the master control and monitor stations and ground antenna equipment on the Global Positioning System.

EXPLANATION OF CHANGES (FY89 to FY90): FY 89 was the final year of requirement.

EXPLANATION OF CHANGES (FY90 to FY91): No change.

CATEGORY Engineering Technical Services

SUBCATEGORY Contract Field Services

STUDY Strategic, Tactical, Mobility, and Communications Systems

(#000)

| | | | | |
|-------------|-------------|-------------|-----------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| \$ 6.855 | \$ 4.673 | \$ 1.518 | TO FY90 | TO FY91 |
| | | | -2,182 | -3,155 |

MAJOR PURPOSE: Contractor Engineering and Technical Services (CETS) personnel are required for the purpose of providing instruction, technical advice, and training to Air Force personnel on problems encountered in the installation, operation, and maintenance of weapon systems and support equipment. The use of CETS is to elevate the skills and abilities of Air Force personnel to a level of self-sufficiency in support of strategic, tactical, mobility, and communication systems.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract services are terminated as a direct result of the Congressionally imposed Contracted Advisory and Assistance Services limitation in FY90. Systems impacted include the F-4, F-111, F-15, A-10A, Global Positioning System, C-5, B-1B, Minuteman, Peacekeeper, B-52, and Short Range Attack Missile.

EXPLANATION OF CHANGES (FY90 TO FY91): CETS for tactical and communications systems will not be available in FY91.

CATEGORY: Engineering and Technical Services

SUBCATEGORY: Contract Field Services

STUDY: N/A

| | (\$000) | | | |
|-------|-----------|------|---------------------|---------------------|
| FY89 | FY90 | FY91 | +/- FY89 TO FY90 | +/- FY90 TO FY91 |
| 1,258 | 320 | 75 | - 938 | - 245 |

MAJOR PURPOSE: Rockwell International Corporation. Contract Field Services (CFS) is required for 89 MAW, Andrews AFB DC, in support of avionics on the C-135/C-137/C-25 aircraft. The Rockwell CFS is required to ensure that timely technical advice and direct factory liaison with Rockwell are available at all times for Presidential support.

EXPLANATION OF CHANGES (FY89 to FY90): Price escalation and contract termination.

EXPLANATION OF CHANGES (FY90 to FY91): Congressional funding limitation. Effective 1 Oct 91, 6.5 man months will be utilized.

CATEGORY: ENGINEERING TECHNICAL SERVICES

SUBCATEGORY: FIELD SERVICE REPRESENTATIVES

STUDY:

(\$000)

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|-------|-------|-------|-----------------------|-----------------------|
| 559 | 417 | 145 | -142 | -272 |

MAJOR PURPOSE: CETS to maintain operational status of 33 F-15 aircraft.

EXPLANATION OF CHANGES (FY89 TO FY90): Four of the five existing contracts will be terminated on 30 Mar 90. We must retain the F-15 Honeywell contract to maintain the Tactical Electronic Warfare System Intermediate Test Stations through FY91. This contractor supports both AAC and the Portland Air National Guard as in-house capability does not exist. The services of the four terminated contracts will be transferred to "blue suiters".

EXPLANATION OF CHANGES (FY90 TO FY91): Decrease due to reduced requirements; \$145K needed to maintain the Tactical Electronic Warfare System Intermediate Test Station.

Special Analysis- Weapon Systems Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ in Thousands)

Appropriation: 3600 (Research, Development, Test and Evaluation) Date: 31 Jan 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (IEC)

| | | | |
|--|-----|-----|-------|
| 1. Personnel Appointments | \$0 | \$0 | \$0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All Other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 0 | 0 | 132 |
| Total Section A | \$0 | \$0 | \$132 |

B. Studies, Analyses and Evaluation (SAE)

| | | | |
|-----------------------------------|-----|-----|-----|
| 1. Manpower and Personnel | \$0 | \$0 | \$0 |
| 2. Concepts and Plans | 0 | 0 | 0 |
| 3. Operations and Force Structure | 0 | 0 | 0 |

| | <u>FY 1989</u> | <u>FY 1990</u> | <u>FY 1991</u> |
|---|----------------|----------------|----------------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 1,986 |
| 6. Management | 0 | 446 | 446 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$446 | \$2,432 |

C. Management Support Services (MSS)

| | | | |
|-----------------------------------|----------|----------|----------|
| 1. Program Management Support | \$14,248 | \$54,891 | \$56,943 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 1,601 | 0 | 0 |
| 6. Technical Data Collection | 0 | 0 | 1,272 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | \$ 21 | \$ 0 | \$ 0 |
| Total Section C | \$15,870 | \$54,891 | \$58,215 |

| | FY 1989 | FY 1990 | FY 1991 |
|--|-------------|-------------|----------|
| D. <u>Engineering and Technical Services (ETS)</u> | | | |
| 1. Contract Plant Services | \$0 | \$0 | \$0 |
| 2. Contract Field Services | 0 | 300 | 300 |
| 3. Field Services Representatives | \$0 | \$0 | \$0 |
| Total Section D | \$0 | \$300 | \$300 |
| E. FFRDCs | | | |
| | (\$ 3,930) | (\$ 4,135) | \$3,933 |
| Total Section E | •(\$ 3,930) | •(\$ 4,135) | \$3,933 |
| GRAND TOTAL | \$15,870 | \$55,637 | \$65,003 |

•Total for FY89 and FY90 would have been \$19,800 and \$59,772 if FFRDCs were included.

CATEGORY Individual Experts and Consultants

SUBCATEGORY Contractor Consultants

STUDY Arts Phase II

| <u>(\$000)</u> | | | |
|----------------|-------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 0 | 132 | 0 |
| | | | <u>+132</u> |

MAJOR PURPOSE: This effort is needed to develop realistic and timely cost and schedule estimates critical to successful program execution.

EXPLANATION OF CHANGES (FY89 TO FY90): N/A

EXPLANATION OF CHANGES (FY90 TO FY91): Increase due to projected growth of estimating activity required to support the program.

CATEGORY Studies, Analyses, and Evaluation
SUBCATEGORY Science, Technology, Systems Equipment
STUDY Various

| | <u>(\$000)</u> | | |
|--|----------------|-------------|-------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | 0 | 0 | 0 |
| | | | 1986 |
| | | | 0 |
| | | | +1986 |

+/- FY89
TO FY90

+/- FY90
TO FY91

MAJOR PURPOSE: Specialized cost estimating and analysis support for the following programs: TITAN IV, Defense Support, Defense Meteorological Satellite, NAVSTAR Global Positioning Satellite Communications, and the Automated Remote Tracking Station.

EXPLANATION OF CHANGES (FY89 TO FY90): Although Contract CAAS requirements existed in FY89 (coding was not in Accounting System) CAAS limitations restricted various contract efforts.

EXPLANATION OF CHANGES (FY90 TO FY91): Increase due to projected growth of estimating activity required to support the program.

CATEGORY Studies, Analyses, and Evaluation

SUBCATEGORY Management

STUDY TITAN IV

| | | (\$000) | | |
|--|-------------|-------------|-------------|-----------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| | 0 | 446 | 446 | <u>+446</u> |
| | | | | <u>+/- FY90 TO FY91</u> |
| | | | | 0 |

MAJOR PURPOSE: Detailed schedule Analyses for TITAN IV program.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in the Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): No change.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Various

| | <u>((\$000))</u> | | | |
|-------------|------------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 14248 | 0 | 0 | -14248 | 0 |

MAJOR PURPOSE: To provide Technical Engineering Management and Program Control Support to form these various programs:
AF Radar Replacement Program, Caribbean Basin Radar, Ballistic Missile Early Warning System, Have Quick,
etc.

EXPLANATION OF CHANGES (FY89 TO FY90): Due to limitation constraints program efforts, will not be fulfilled.

EXPLANATION OF CHANGES (FY90 TO FY91): Same as FY90.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY C17A

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 1153 | 2831 | +1153 |
| | | | +1678 |

MAJOR PURPOSE: Management support services in the areas of configuration management and data item tracking.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Additional personnel and inflation for increased program requirements.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Advanced Cruise Missile (ACM)

| | <u>(\$000)</u> | | |
|-------------|------------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 6948 | 6460 | <u>+6948</u> |
| | | | <u>-488</u> |

MAJOR PURPOSE: Provides logistics, configuration management, security, manufacturing, quality assurance, management info systems, and special analysis for dual source selection.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): FY90 funds 12 months effort; FY91 funds only 10 months.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Joint Tactical Information Distribution System (JTIDS)

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 2753 | 2708 | +2753 |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | -45 |

MAJOR PURPOSE: Provides System Acquisition, Engineering and Technical Management Support for JTIDS.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Funding decreased due to change in skill mix on the TEMS task orders.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Joint Tactical Information Distribution System (JTIDS)

| | | <u>(\$000)</u> | | |
|-------------|-------------|----------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 0 | 1030 | 1060 | +1030 | +60 |

MAJOR PURPOSE: Provides Technical Management Support to the JTIDS JPO for Logistics and Engineering efforts.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Adjustments due to inflation.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Cheyenne Mountain Upgrades (CMU)

(\$000)

| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
|-------------|-------------|-------------|-----------------------------|-----------------------------|
| 0 | 2617 | 2858 | +2617 | +241 |

MAJOR PURPOSE: Provides matrix/program control support for programs within the Space and Missile Warning Systems Program Office so that they can accomplish the objectives of the PMDs.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Increase on CMU program reflects increased assessment for SPO support on CMU programs and correspondence decrease on sensor programs (BMEWS, PAVE PAWS, GEODSS). No net change in Space & Missile Warning SPO requirements from FY 90 to FY 91.

STUDY Joint STARS

+4900

EXPLANATION OF CHANGES (FY90 TO FY91): The FY91 amount is the budgeted amount and reflects the anticipated needs to support the restructured program.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY ANACS

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 2647 | 2009 | +2647 |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | -638 |

MAJOR PURPOSE: Contractor provides management support to all E-3 airborne warning and control projects (ICON, RSIP, etc.)

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Reduced total number of manyear support, due to limited funds.

CATEGORY Management Support Services
SUBCATEGORY Program Management Support
STUDY Microwave Landing System (MLS)

| | <u>(\$000)</u> | | |
|--|----------------|-------------|-----------------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | 0 | 1665 | 1665 |
| | | | +1665 |
| | | | <u>+/- FY89</u> <u>TO FY90</u> |
| | | | <u>+/- FY90</u> <u>TO FY91</u> |
| | | | 0 |

MAJOR PURPOSE: Provides program Control Support, Life Cycle Cost information, aircraft integration scheduling, logistics planning, and engineering.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): No change.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY MILSTAR

| (\$000) | | | |
|-------------|-------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 1290 | 2080 | <u>+1290</u> |
| | | | <u>+790</u> |

MAJOR PURPOSE: Provides Management Information Systems, Program Control, Program Management, on-site coordination of field testing, and system engineering and technical support to SM-ALC for the development of integrated logistics support in support of MILSTAR Air Force Terminals for AFSpaceCOM and selected test sites to ensure timely and economical accomplishment of program objectives.

EXPLANATION OF CHANGES (FY89 TO FY90): New requirement for on-site field testing starting Nov 1 and on-site logistics support at SM-ALC starting in Jan; other support includes MIS, Program Control, and Program Management to start Apr 1.

EXPLANATION OF CHANGES (FY90 TO FY91): No requirement has been identified for logistics support at SM-ALC in FY 91. The cost increase is due to a full year of effort as opposed to 6 months of effort in FY 90.

CATEGORY Management Support Services
SUBCATEGORY Program Management Support
STUDY Military Satellite Communications System (MILSTAR)

| <u>(\$000)</u> | | | |
|----------------|-------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 4850 | 0 | +4850 |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | -4850 |

MAJOR PURPOSE: Provides logistics, integration and testing, and systems engineering and technical support to MILSTAR to ensure timely and economical accomplishment of program objectives consistent with system requirement.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Funding unavailable in FY 91 to support manpower.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Minimum Essential Emergency Communication Network (MEECN)

| | (\$000) | | |
|--|-------------|-------------|-------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | 0 | 2220 | 1100 |
| | | | +2220 |
| | | | -1120 |

+/- FY89
TO FY90

+/- FY90
TO FY91

MAJOR PURPOSE: Provides system engineering support in the technical area of Very Low Frequency/Low Frequency (VLF/LF) receiver and transmitter development.

EXPLANATION OF CHANGES (FY89 TO FY90): Manpower is required to oversee test and evaluation completion, prototype refurbishment, and acceptance of Full Scale Development (FSD) units. Reduced manloading reflects the transition of MRT into the production phase.

EXPLANATION OF CHANGES (FY90 TO FY91): Development effort complete. Manpower reflects studies and analyses for future VLF/LF advancements and for new applications of developed MEECN hardware.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY MILSTAR

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 3692 | 3800 | +3692 |
| | | | +108 |

MAJOR PURPOSE: Provides configuration control, management and technical support to MILSTAR to ensure timely and economical accomplishment of program objectives consistent with system requirement.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract was obligated with FY 88 funds with the period of performance ending 15 Oct 1989. At the termination date, a no cost extension was granted to the contractor until 15 Feb 1990.

EXPLANATION OF CHANGES (FY90 TO FY91): No change in manpower level. The difference in cost is due to escalation of cost.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Project Mark XV

| | <u>(\$000)</u> | | |
|--|----------------|-------------|-------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | 0 | 5964 | 7264 |
| | | | +5964 |
| | | | +1300 |

MAJOR PURPOSE: Provides acquisition management support (planning and tracking schedules).

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Additional support is required to accomplish critical design review.

CATEGORY Management Support Services

SUBCATEGORY Program Support Services

STUDY B1B

| | <u>(\$000)</u> | | |
|-------------|------------------|-----------------|-----------------|
| <u>FY89</u> | <u>FY90</u> | <u>+/- FY89</u> | <u>+/- FY90</u> |
| 0 | 6175 | <u>TO FY90</u> | <u>TO FY91</u> |
| | | +6175 | -2913 |

MAJOR PURPOSE: Contractor support provides data management in the areas of program management and logistics.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Decrease due to near completion of B1B program requirements.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Dual Frequency WEECN Receiver (DFMR)

| | (\$000) | | |
|--|-------------|-------------|-------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | 0 | 2136 | 2751 |
| | | | +2136 |
| | | | +615 |

MAJOR PURPOSE: Provides Data/Configuration management, CPR/Schedule Analysis, Logistics, Software, and Engineering support.

EXPLANATION OF CHANGES (FY89 TO FY90): Program went on contract 28 Sep 89. Previous support provided thru the Ground Wave Emergency Network (GMEN) Program.

EXPLANATION OF CHANGES (FY90 TO FY91): Additional support required to evaluate anticipated Engineering Change Proposals.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Battle Management Systems (BMS)

| | <u>(\$000)</u> | | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
|-------------|----------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | | |
| 0 | 1150 | 1207 | +1150 | +57 |

MAJOR PURPOSE: Provides configuration/data management support to the Battle Management Systems (BMS) Program Office.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Increase due to inflation.

CATEGORY Management Support Services
SUBCATEGORY Program Management Support
STUDY Over-the-Horizon Backscatter Radar Program (OTH-B)

| | <u>(\$000)</u> | | |
|-------------|----------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 0 | 635 | 2588 | <u>+635</u> |
| | | | +1953 |

MAJOR PURPOSE: The following contracts provide needed expertise not presently available due to manpower constraints.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in the Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): Increase due to completion of (ECRS) East Coast Radar System which allows increased work towards other OTH-B efforts.

CATEGORY Management Support Services

SUBCATEGORY Program Management Support

STUDY Battle Management Systems/Mission Planning Systems/TAFAMPS

| | | | | |
|--|-------------|----------------|-------------|-----------------------------|
| | | <u>(\$000)</u> | | |
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| | 0 | 966 | 1400 | +966 |
| | | | | +434 |

MAJOR PURPOSE: Provides cost estimating and engineering support for Battle Management Systems Program Office. Provides supplemental program control support for Tactical Air Forces Advanced Mission Planning System (TAFAMPS).

EXPLANATION OF CHANGES (FY89 TO FY90): Cost estimating requirements for new efforts. FY89 efforts funded under different program element.

EXPLANATION OF CHANGES (FY90 TO FY91): Increase due to inflation.

CATEGORY Management Support Services

SUBCATEGORY Logistic Support Service

STUDY Various

| | <u>(\$000)</u> | | |
|--|----------------|-------------|-----------------------------|
| | <u>FY89</u> | <u>FY90</u> | <u>FY91</u> |
| | 1601 | 0 | 0 |
| | | | <u>+/- FY89 TO FY90</u> |
| | | | <u>+/- FY90 TO FY91</u> |
| | | -1601 | 0 |

MAJOR PURPOSE: Management support services for logistics support and tech order maintenance, studies and analysis for the E-3 AWACS, C17A, Trainer Tanker Transporter, SRAM II, and the Airborne Self Protection Jammer.

EXPLANATION OF CHANGES (FY89 TO FY90): Due to funding limitations these program requirements will not be fulfilled.

EXPLANATION OF CHANGES (FY90 TO FY91): Same as FY90.

CATEGORY Management Support Services

SUBCATEGORY Other

STUDY NAVSTAR Global Positioning System

| | <u>(\$000)</u> | | |
|-------------|------------------|-------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> |
| 21 | 0 | 0 | -21 |
| | | | <u>+/- FY90 TO FY91</u> |
| | | | 0 |

MAJOR PURPOSE: Program Control Corp. provided scheduling capabilities for NAVSTAR GPS Project Office meeting, i.e., critical path charts and graphs not otherwise available in the project office.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract completed Dec 88.

EXPLANATION OF CHANGES (FY90 TO FY91): N/A

CATEGORY Engineering and Technical Services

SUBCATEGORY Contract Field Services

STUDY Defense Support Program

| | <u>(\$000)</u> | | | |
|-------------|------------------|-------------|-----------------------------|-----------------------------|
| <u>FY89</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY89 TO FY90</u> | <u>+/- FY90 TO FY91</u> |
| 0 | 300 | 300 | +300 | 0 |

MAJOR PURPOSE: Contractor provides technical support to the Defense Support Program, Deputy Program Manager of Logistics in the areas of Integrated Logistics Support and Engineering Data Management Support.

EXPLANATION OF CHANGES (FY89 TO FY90): Contract CAAS requirement existed in FY89 but was not coded in Accounting System.

EXPLANATION OF CHANGES (FY90 TO FY91): N/A

Special Analysis- Weapon Systems Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation: 3740 (Operations and Maintenance, Air Force Reserve) Date: 31 Jan 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (IEC)

| | | | |
|--|-----|-----|-----|
| 1. Personnel Appointments | \$0 | \$0 | \$0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 0 | 0 | 0 |

Total Section A \$0 \$0 \$0

B. Studies, Analyses and Evaluation (SAE)

| | | | |
|-----------------------------------|-----|-----|-----|
| 1. Manpower and Personnel | \$0 | \$0 | \$0 |
| 2. Concepts and Plans | 0 | 0 | 0 |
| 3. Operations and Force Structure | 0 | 0 | 0 |

| | FY_1989 | FY_1990 | FY_1991 |
|---|---------|---------|---------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$0 | \$0 |

C. Management Support Services (MSS)

| | | | |
|-----------------------------------|-----|-----|-----|
| 1. Program Management Support | \$0 | \$0 | \$0 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 0 | 0 | 0 |
| 6. Technical Data Collection | 0 | 0 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 0 | 0 |
| Total Section C | \$0 | \$0 | \$0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$ 0 | \$ 0 | \$ 0 |
| 2. Contract Field Services | 2,975 | 5,130 | 3,489 |
| 3. Field Service Representatives | 0 | 0 | 0 |
| Total Section D | 2,975 | 5,130 | 3,489 |
| E. FFRDCs | \$ 0 | \$ 0 | \$ 0 |
| Total Section E | \$ 0 | \$ 0 | \$ 0 |
| GRAND TOTAL | 2,975 | 5,130 | 3,489 |

Engineering and Technical Services

Contract Field Services

Study: F-4; F-16

| | | | | |
|---------|---------|---------|-----------------------|-----------------------|
| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
| \$2,975 | \$5,130 | \$3,489 | \$+2,155 | \$-1,641 |

Major Purpose: The provide engineering and technical assistance to Air Force Reserve personnel during weapons systems conversion.

Explanation of Changes (FY89 to FY90): Change is attributable to inflation and the addition of 24 F-16s to the Air Force Reserve inventory.

Explanation of Changes (FY90 to FY91): FY91 change reflects the loss of 6 tactical fighter aircraft during conversion of F-4Es to F-16s.

Special Analysis- Weapon Systems Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation: 3840 (Operations and Maintenance, Air Force Guard) Date: 31 Jan 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (JEC)

| | | | |
|--|-----|-----|-----|
| 1. Personnel Appointments | \$0 | \$0 | \$0 |
| a. Experts | 0 | 0 | 0 |
| b. Consultants | 0 | 0 | 0 |
| (1) Federal Advisory Committee Members | 0 | 0 | 0 |
| (2) All other Appointed Consultants | 0 | 0 | 0 |
| 2. Contract Consultants | 0 | 0 | 0 |
| Total Section A | \$0 | \$0 | \$0 |

B. Studies, Analyses and Evaluation (SAE)

| | | | |
|-----------------------------------|-----|-----|-----|
| 1. Manpower and Personnel | \$0 | \$0 | \$0 |
| 2. Concepts and Plans | 0 | 0 | 0 |
| 3. Operations and Force Structure | 0 | 0 | 0 |

| | <u>FY 1989</u> | <u>FY 1990</u> | <u>FY 1991</u> |
|---|----------------|----------------|----------------|
| 4. Installations and Logistics | 0 | 0 | 0 |
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | \$0 | \$0 | \$0 |

C. Management Support Services (MSS)

| | | | |
|-----------------------------------|-----|-----|-----|
| 1. Program Management Support | \$0 | \$0 | \$0 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 0 | 0 | 0 |
| 6. Technical Data Collection | 0 | 0 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 0 | 0 |
| Total Section C | \$0 | \$0 | \$0 |

| | FY 1989 | FY 1990 | FY 1991 |
|--|----------------|----------------|----------------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$ 0 | \$ 0 | \$ 0 |
| 2. Contract Field Services | 4,850 | 9,286 | 6,899 |
| 3. Field Service Representatives | 0 | 0 | 0 |
| Total Section D | \$4,850 | \$9,286 | \$6,899 |
| E. FFRDCs | | | |
| | \$ 0 | \$ 0 | \$ 0 |
| Total Section E | \$ 0 | \$ 0 | \$ 0 |
| GRAND TOTAL | \$4,850 | \$9,286 | \$6,899 |

Operation and Maintenance, Air National Guard

CATEGORY Engineering and Technical Services

SUBCATEGORY Contract Field Services

STUDY Not Applicable

| (\$ in thousands) | | | |
|-------------------|-------------|-------------|-----------------------------|
| <u>FY82</u> | <u>FY90</u> | <u>FY91</u> | <u>+/- FY90 TO FY91</u> |
| \$4,850 | \$9,286 | \$6,899 | -\$2,387 |

MAJOR PURPOSE: Contract Engineering And Technical Services used to assist units converting to newer weapon systems.

EXPLANATION OF CHANGES (FY89 to FY90): No Change.

EXPLANATION OF CHANGES (FY90 to FY91): Decrease of \$2,387 is due to \$380 price growth and \$-2,767 program growth consisting of an increase of 59 man months for F-16 aircraft (\$1,103) offset by a decrease in man months of: -72 for F-15 aircraft (\$-939); -48 for C-5 aircraft (\$-801); -48 for C-130 aircraft (\$-744); -44 for A-10 aircraft (\$-784); and -36 for C-141 aircraft (\$602).

Special Analysis- Weapon Systems Services and Support
Contract Advisory and Assistance Services (CAAS)
(\$ In Thousands)

Appropriation: 4922 (Industrial Fund)

Date: 31 Jan 1990

FY 1989 FY 1990 FY 1991

A. Individual Experts and Consultants (IEC)

1. Personnel Appointments

a. Experts

b. Consultants

(1) Federal Advisory Committee Members

(2) All other Appointed Consultants

2. Contract Consultants

Total Section A

B. Studies, Analyses and Evaluation (SAE)

1. Manpower and Personnel

2. Concepts and Plans

3. Operations and Force Structure

4. Installations and Logistics

| | | |
|-----|-----|-----|
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| \$0 | \$0 | \$0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|---|---------|---------|---------|
| 5. Science, Technology, Systems and Equipment | 0 | 0 | 0 |
| 6. Management | 0 | 0 | 0 |
| 7. Intelligence | 0 | 0 | 0 |
| 8. International Security | 0 | 0 | 0 |
| 9. Social and Natural Sciences | 0 | 0 | 0 |
| Total Section B | 0 | 0 | 0 |

C. Management Support Services (MSS)

| | | | |
|-----------------------------------|-----|-----|-----|
| 1. Program Management Support | \$0 | \$0 | \$0 |
| 2. Policy Review and Development | 0 | 0 | 0 |
| 3. Specification Development | 0 | 0 | 0 |
| 4. Technology Sharing/Utilization | 0 | 0 | 0 |
| 5. Logistics Support Services | 0 | 0 | 0 |
| 6. Technical Data Collection | 0 | 0 | 0 |
| 7. Advertising Services | 0 | 0 | 0 |
| 8. Other | 0 | 0 | 0 |
| Total Section C | 0 | 0 | 0 |

| | FY 1989 | FY 1990 | FY 1991 |
|--|----------------|----------------|--------------|
| D. Engineering and Technical Services (ETS) | | | |
| 1. Contract Plant Services | \$ 0 | \$ 0 | \$ 0 |
| 2. Contract Field Services | 1,719 | 2,515 | 246 |
| 3. Field Service Representatives | 0 | 0 | 0 |
| Total Section D | \$1,719 | \$2,515 | \$246 |
| E. FFRDCs | | | |
| Total Section E | \$ 0 | \$ 0 | \$ 0 |
| GRAND TOTAL | \$1,719 | \$2,515 | \$246 |

Engineering and Technical Services

Contract Field Services

Study: C-5/C-9/C-137/B-18

| FY 89 | FY 90 | FY 91 | +/- FY 89 TO FY 90 | +/- FY 90 TO FY 91 |
|-------|-------|-------|-----------------------|-----------------------|
| 1.719 | 2.515 | 246 | +796 | -2269 |

Major Purpose: Provides essential Contractor Field Services (CFS) which includes liaison and technical assistance for C-5/C-9/C-137 aircraft.

Explanation of Changes (FY89 to FY90): Variance is due to an adjustment to accrued expense estimate in FY89 by the contract manager.

Explanation of Changes (FY90 to FY91): The reduction of \$2,269 is due to scheduled termination of all except 2 General Electric engine contract field services representatives who are scheduled for termination after FY91.